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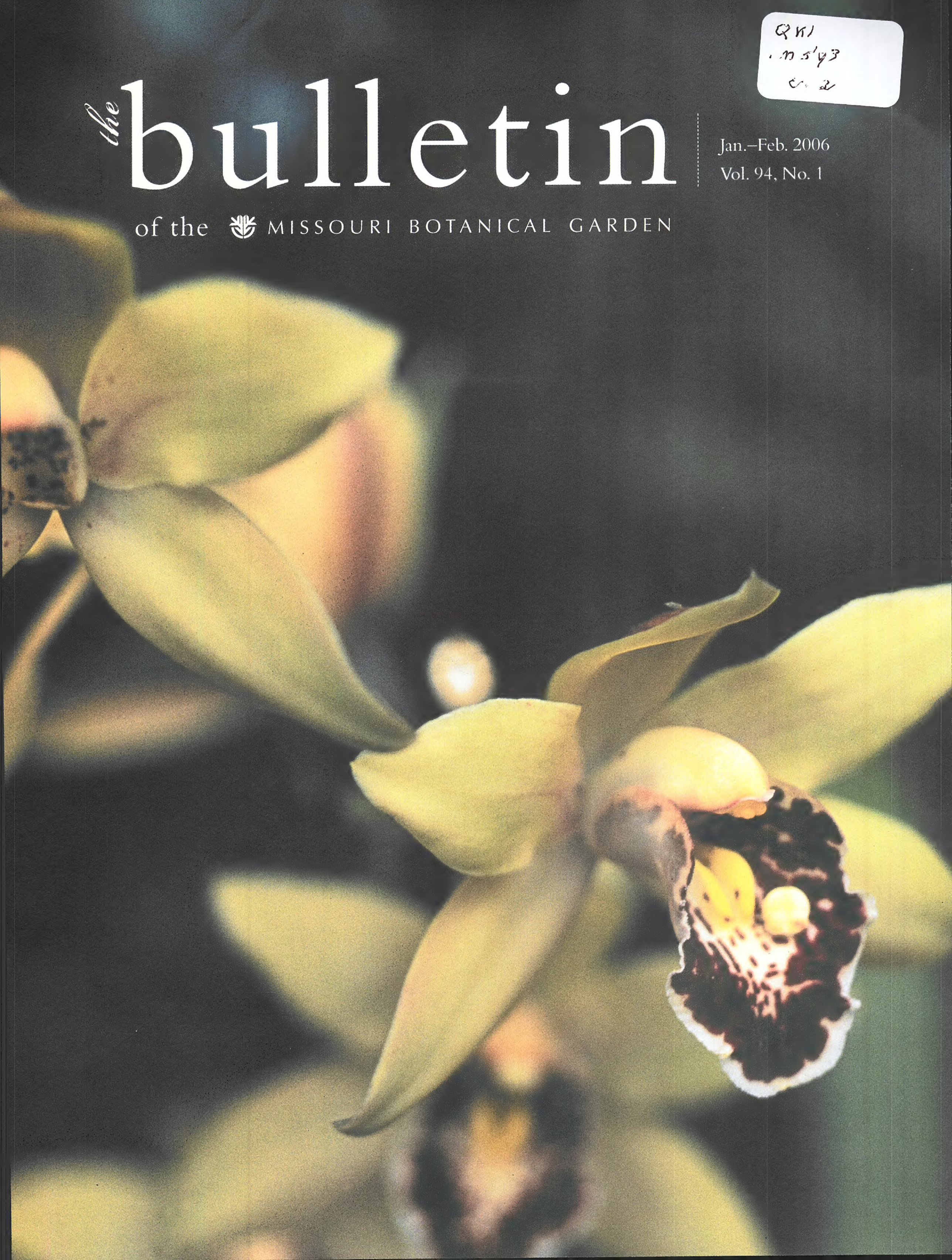
the bulletin

of the MISSOURI BOTANICAL GARDEN

Jan.–Feb. 2006
Vol. 94, No. 1



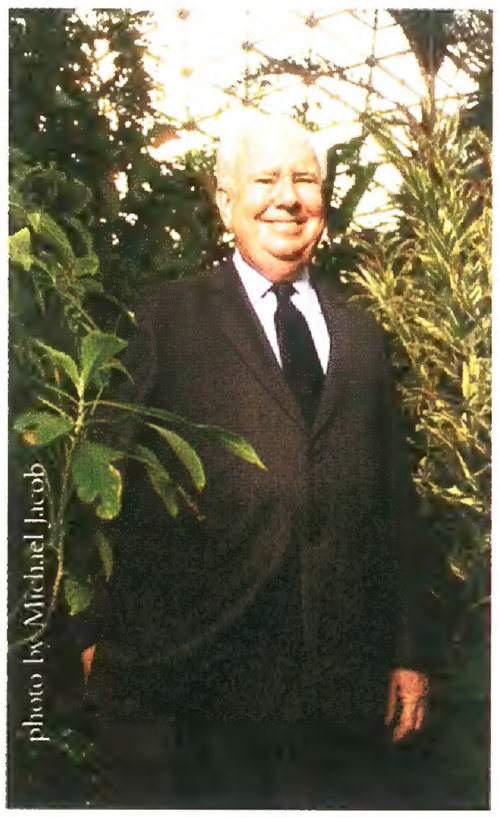


photo by Michael Jacob

from the director...

In December 2005, the Garden completed the most ambitious campaign drive in the history of this institution. Announced in May 2004, the *Stewards of the Earth* campaign finished by raising over $75 million, four million more than the original goal. This unprecedented success would not have been possible without the leadership and vision brought by campaign chairman David W. Kemper and president of the board Scott C. Schnuck. From Jack Taylor's lead gift of $30 million, the largest single donation ever made to a botanical garden, to the contributions of members like you who named benches and bricks and tributes, the Garden's many supporters have made the *Stewards of the Earth* campaign a dramatic success—one which will impact the future of the Garden, the region, and even the world.

Each year we see breeds new beginnings. The coming year will continue the momentum of the campaign with unparalleled openings, events, and exhibits. The Doris I. Schnuck Children's Garden opens for initial sneak-peek weekends throughout April with a focus on Missouri plants, people, history, and family fun. Then in May, visitors will be entranced by the magnificent works in glass of artist Dale Chihuly custom-designed for locations inside the Climatron conservatory, Temperate House, and various reflecting pools. Don't miss the first Chihuly piece to arrive—a large "Jerusalem blue" chandelier to be installed in the Ridgway Center mid-January. Installations in the Climatron and reflecting pools will begin in March. Throughout the year, members are encouraged to visit the Garden's family of attractions, where exciting developments are taking place. New exhibits are being installed at the Sophia M. Sachs Butterfly House. The EarthWays Center offers new education opportunities, and look for an important groundbreaking at the Shaw Nature Reserve.

The name of the *Stewards of the Earth* campaign derives from a comment I once made—that by preserving the world in a condition that is worthy of us, by becoming Stewards of the Earth, we win a kind of immortality. I add now that by sharing knowledge of that world, and by introducing children at an impressionable age to the joys of nature, we will build a better future. Thank you to everyone in the community who contributed to our shared success.

Peter H. Raven

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Last year, 720 mature trees were *not* cut down to make the *Bulletin*. Thirty-two thousand, four hundred and forty-eight pounds of solid waste were *not* generated, nor were 63,415 pounds of atmospheric emissions. Over 305,000 gallons of water waste were spared. And we saved 420,000,000 BTUs of energy, about 2,436 barrels of oil. Less is, sometimes, *more*. The Missouri Botanical Garden made a resolution in 2005 to establish a gold standard for green printing. We're keeping our promise again this year. This paper is made from 100% post-consumer content, i.e., paper that has already been used in the world once before, so we are completing the recycling loop. And it is produced in a factory using wind power, a renewable energy source. We print locally, so there's less long-haul transportation and we're reinvesting in our community. Being green is trendy; almost every printed item claims some recycled content, but the Missouri Botanical Garden has established a truly superior "green standard." As Stewards of the Earth, shouldn't we all make a resolution this year to improve our environment? Whether you decide to conserve resources, plant more trees, volunteer at a community garden, or introduce a child to the wonders of nature, the Garden can help you keep your resolution in 2006.

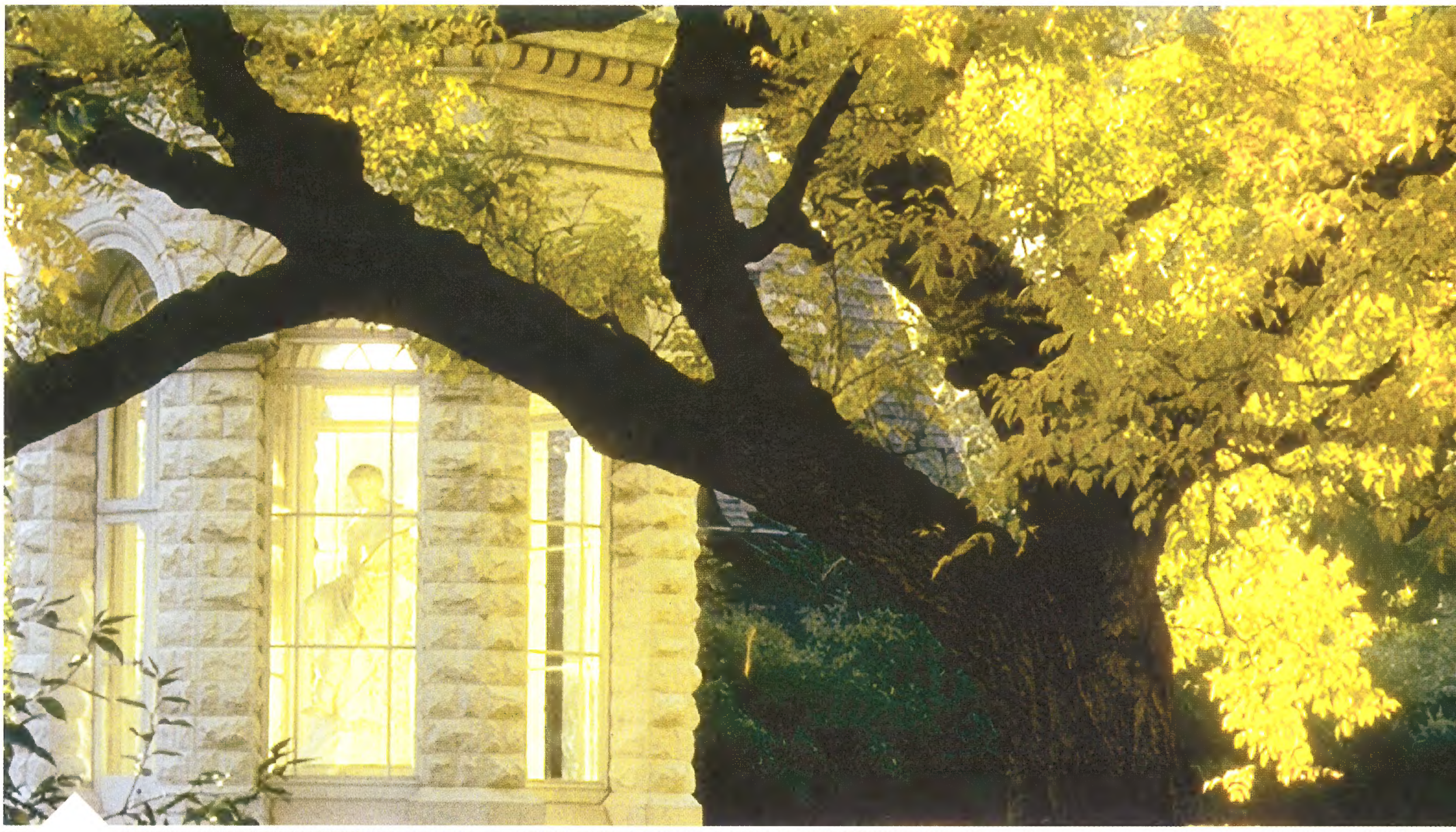
MISSOURI BOTANICAL

JAN 0 4 2006

GARDEN LIBRARY

campaign

Stewards of the Earth



The Victory of Science over Ignorance by Carlo Nicoli.

Celebrating Success!

Launched in May of 2003, the *Stewards of the Earth* campaign, with a goal of $71 million, was the largest, most ambitious campaign in Garden history. When the campaign closed on December 31, 2005, the total funds raised tallied over $75 million.

"The campaign owes much to the hard work and dedication of Director of Development Patty Arnold and her talented staff, who contributed to this unparalleled success," says campaign chair David W. Kemper. "Not only was the campaign completed on time, but it even surpassed the original goal."

The campaign, which took as its emblem the statue by Carlo Nicoli of *The Victory of Science over Ignorance*, sought a financial foundation in order to:

- strengthen the Garden's critical role in establishing St. Louis as a world leader in plant sciences,
- enhance biodiversity and conservation around the globe,
- and preserve and maintain the historic legacy of Shaw's vision on both Garden grounds and satellite institutions.

"The dramatic achievement of the *Stewards of the Earth* campaign will positively impact the future of the Garden, the region, and even the world," says Director Peter H. Raven. "We are very grateful for the leadership of campaign chair David W. Kemper and president of the board Scott C. Schnuck, and to our many supporters."

Already many campaign projects have come to fruition—the construction of the Commerce Bank Center for Science Education last year, the opening of the George Washington Carver Garden and the newly renovated and reinterpreted Tower Grove House last fall.

"We are tremendously gratified by the vision and generosity of the St. Louis community," adds Director of Development Patty Arnold.

Look for publication of the *Stewards of the Earth* campaign honor roll of donors later this spring.

Through the campaign, the Garden hopes to achieve its most comprehensive advance ever in integrating research, education, and horticultural display. Donors who support the Garden reap the satisfaction that they have sustained a place of singular beauty, cultivated understanding of the relationship between humans and the environment, and hastened the victory of science over ignorance. If you would like to contribute to the campaign, it's not too late. Please contact the Development Office at (314) 577-5120.

campaign steering committee:

David W. Kemper, *chair*

Vice chairs: Clarence C. Barksdale, Stephen F. Brauer, William H.T. Bush, Marilyn Fox, Peter H. Raven, Scott C. Schnuck, Andrew C. Taylor, Jack E. Thomas, Jr.

photo by Ryan Rumberger

Tower Grove House

The renovated Tower Grove House reopened to the public Saturday, October 29, after a two-year renovation and reinterpretation. Above: Marie Schmitz, chair of the Tower Grove House Committee, cuts the inaugural "ribbon."

While the house has been open to visitors in the past, the new interpretation emphasizes the Victorian era house as Shaw's home, displaying his own furniture and other items, papers and books that he used as he worked to create the Missouri Botanical Garden. An 1890 newspaper article described the project as a garden "to provide a vision of joy for visitors and a research facility for the professional botanist."

Visitors enter the home through a reception area on the first floor. Exhibit panels on the first floor of the three-story east addition, which replaced the servants' wing, includes a timeline of Shaw's activities and significant historical events. Visitors also tour the high-ceilinged, two-story west wing of the home, which includes the front parlor, dining room, two upstairs bedrooms, and two rooms in the basement. In addition to the interior renovation, the building has a new roof and infrastructure. A new carillon bell system chimes on the hour from 9 a.m. to 5 p.m. on weekdays, four times on the weekends, and can be programmed to ring at the conclusion of wedding ceremonies at the Garden.

The re-dedication of the Tower Grove House was made possible by the Stewards of the Earth *campaign and The May Department Stores Company, Jane and Joe Gleason, Mary Jane Kirtz, Mary Ann Lee, and the Tower Grove House Auxiliary.*

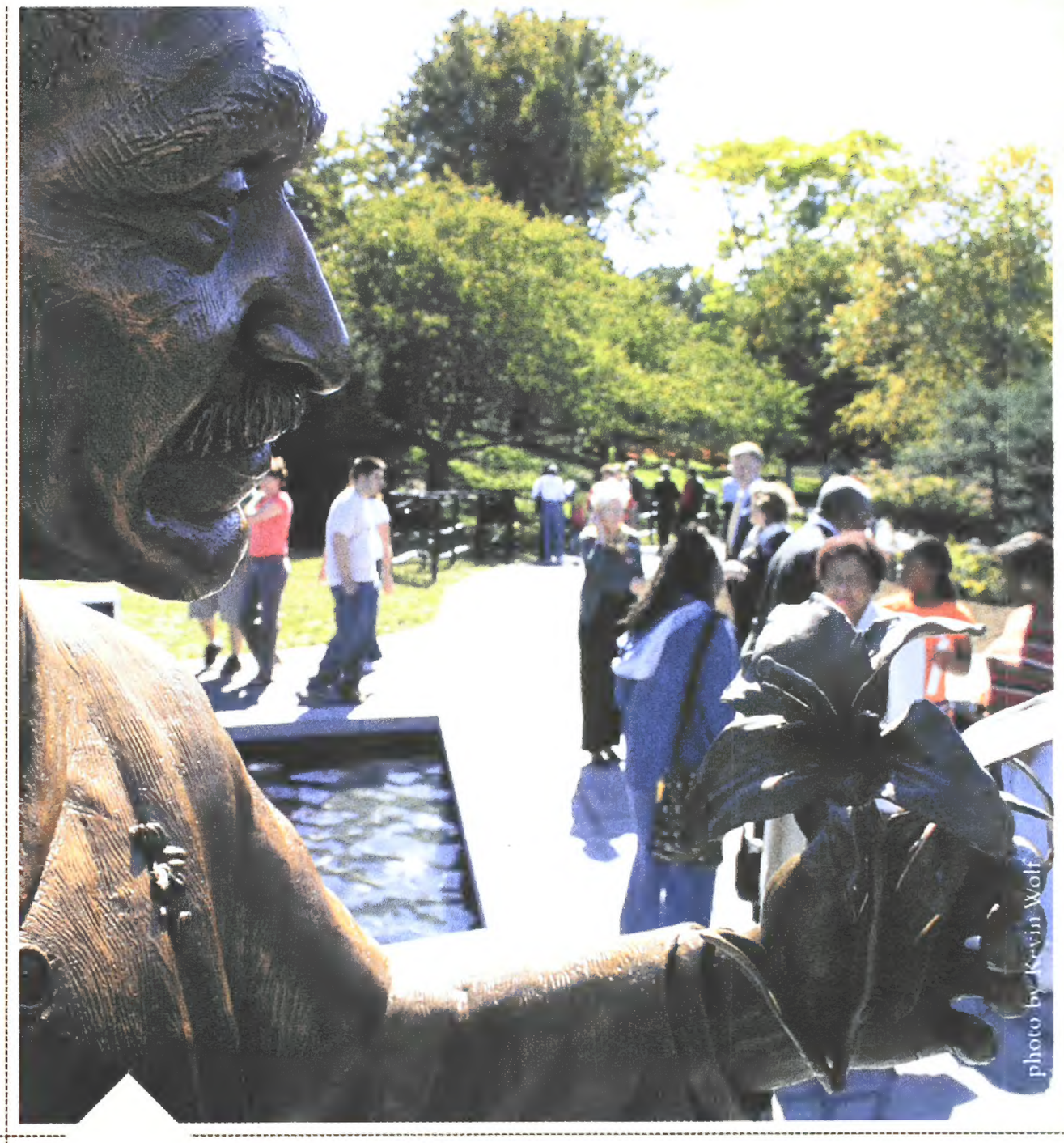


photo by Kevin Wolf

Carver Garden

The new Carver Garden, the first in the nation, opened to the public on Saturday, October 15. In attendance at the ceremony were artist Tina Allen, creator of the central sculpture, actor and St. Louis native Robert Guillaume, Dr. Luther Williams, and members of the Carver Garden Advisory Committee.

The one-and-a-half acre Carver Garden, built by ICR Construction Services of St. Louis, is located on the western edge of the botanical garden between the Japanese Garden and the Kemper Center for Home Gardening. Visitors proceed down a path lined with inspirational inscriptions from Carver's writings and speeches, emerging at a central reflecting pool. Benches and a small amphitheater surrounding the water provide a quiet place to relax. The garden will be landscaped with fragrant viburnums, hydrangeas, callery pears and sweet potato vines. The focal point is a life-size bronze of Carver by acclaimed African-American sculptor Tina Allen of California. The six-foot statue shows a mature Carver of about 65 years old, wearing a lab jacket and a wise, gentle expression as he stands holding a small plant to the sunlight. Allen's other works include statues of Sojourner Truth, Alex Haley, Ralph Bunche, and Dr. Martin Luther King, Jr.

The Carver Garden will be not only a memorial but also a learning laboratory for youth, including a kiosk for educational instruction and a school curriculum written by Garden educators.

The construction of the George Washington Carver Garden was funded through the Stewards of the Earth *campaign and the generosity of the Coca-Cola Company, Lawrence L. Cohn, Mr. and Mrs. Arnold Donald, the Harry Edison Foundation and the Edison Family Foundation, and an anonymous donor.*

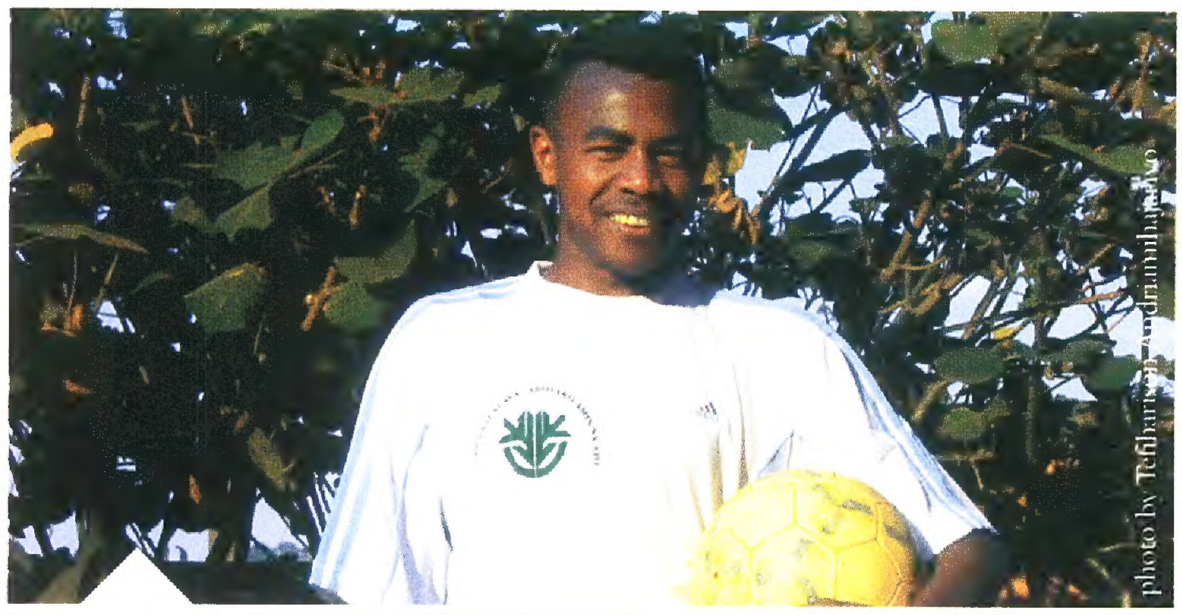
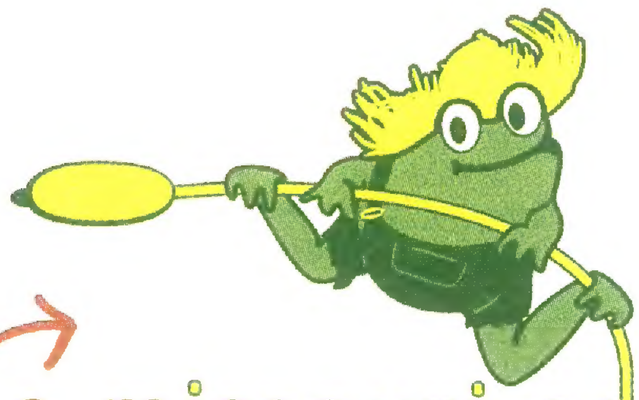


photo by Tefilhartsen Andriamihaja, MBG

Soccer Players for Conservation

One of Madagascar's priority sites for plant conservation is a degraded fragment of rain forest called Analalava Forest, located about 4 miles (7 km) west of Foulpointe, on Madagascar's east coast. This 500-acre (200 ha) forest is the last known habitat of several plant species and also home to five species of lemurs, fruit bats, 51 species of birds, and 55 species of reptiles and amphibians. However, each year the forest is threatened by fire and in 2003 one quarter went up in smoke. The Missouri Botanical Garden's Madagascar Program is working with local people to protect the forest. As one way to spread the message, the Garden provides four local soccer teams with jerseys that read: *Alan'Analalava: arovako amin'ny afo or Analalava Forest: I protect against fire.*

Above: Soccer player René Rabenatoandro whose Garden-sponsored jersey reads "I protect against fire."



a missouri adventure
the doris i. schnuck children's garden

Name that Frog!

The Doris I. Schnuck Children's Garden—A Missouri Adventure—opens in April and this friendly Missouri frog is planning to make the new garden his home. But he doesn't have a name! Help him out by suggesting one in the Missouri Botanical Garden "Name That Frog!" contest—you could win a free, one-year pass to the Children's Garden! But hurry—this promotion ends January 31. Visit www.mobot.org for a complete set of rules and to register online. *Open to all children in the United States age 12 or under as of April 1, 2006. Limit one entry per person. Form must be filled out in its entirety and submitted no later than 4:59 p.m. CST on Tuesday, January 31.*

Recycle your Christmas Tree

Don't send that tree to the landfill. Make a New Year's resolution to recycle this year. Both St. Louis City and County recycle the trees at public parks into wood chips and mulch, which is then available for pick-up by the public. Call the Garden's Composting Hotline at (314) 577-9555 for tree recycling drop-off locations, and be sure to remove all ornaments and decorations.

Henry Shaw Fund

Every December, the Garden makes a year-end appeal for gifts to the Henry Shaw Fund, our most critical source for general operating support. Garden members have once again led the way in contributions. If you have not done so already, please consider making a gift. Your tax-deductible donation will help the Garden continue the many programs and exhibits offered each year, expand our science and math education programs, strengthen our efforts to promote conservation and biodiversity, and preserve the beauty of more than 79 acres of horticultural displays. To make a gift to the Henry Shaw Fund, please call Sharon Mertzlufft at (314) 577-9495 or mail your contribution to MBG, P.O. Box 299, 63166.

Photo by Matt Bender

Your Garden Membership

New and renewing members in 2006 are in for a treat—the latest collectible Missouri Botanical Garden umbrella featuring *Cornus florida*, or flowering dogwood, the state tree of Missouri. Garden umbrellas are sturdy, large, and colorful—perfect for spring showers. For an additional contribution of $35, members may also order the matching Missouri Botanical Garden license plate, also featuring the dogwood motif. Stop by the Membership Desk, visit the website (www.mobot.org), or call (314) 577-5118 for details.

In 2006, upper level members (Family and above) will receive more Bonus Bloom passes per membership than before *at no additional cost.* See the website or the latest membership brochure for full details. With the new Children's Garden and Chihuly exhibit opening in 2006, now is the perfect time to upgrade your membership! Upgrade soon and receive an additional gift—the Chihuly signature tote bag.

Also in conjunction with the new Children's Garden and Chihuly exhibit, the Garden introduces this year a new, state-of-the-art ticketing system. With the ability to issue timed tickets, sell tickets on the Internet, and convey information with the handy swipe of a barcode, the new ticketing system should provide faster service than ever before, and get you and your guests out and about in the Garden in no time. The new tickets make their debut at the 2006 orchid show. Please bear with us as we install this sophisticated system and, as members, you'll be the first to receive your new tickets when you visit the front ticket counter in the Ridgway Center.

Temporary Entrance

From January 3 to 27, the Garden's main entrance, the Ridgway Center, will be closed for construction, and renovation. The Garden Gate Shop and Sassafras café will also be closed. During this time, visitors may enter the Garden via a temporary entrance at the Emerson Conservation Center, directly west of the Ridgway Center.

Sneak Peek

On January 10–12, the first piece of the *Glass in the Garden* exhibit, a Chihuly chandelier, will be installed in the Ridgway Center, as part of the ongoing work there. On these days only, the public will be permitted to enter the building from the south end, for viewing. *Glass in the Garden: Chihuly at the Missouri Botanical Garden* opens April 30.

Planning a Party?

Glass in the Garden: Chihuly at the Missouri Botanical Garden runs from April 30 to October 31. This exclusive site-specific installation of gorgeous glass sculpture will be lit for evening viewing, making the Garden an even more attractive venue for your unique night-time event in 2006. Catering St. Louis is the exclusive caterer of the Missouri Botanical Garden, and in 2006, they have added a larger venue than previously available for one year only! During this special year of Glass in the Garden, a temporary pavilion capable of holding up to 375 people will be installed beside the Linnean House. For more information and details on pricing, call (314) 577-0200.

Mr. Toad's Orchid Adventure

"They disembarked, and strolled across the gay flower-decked lawns in search of Toad, whom they presently happened upon resting in a wicker garden-chair, with a pre-occupied expression of face, and a large map spread out on his knees. 'Hooray!' he cried, jumping up on seeing them, 'this is splendid!'"

Orchid Show 2006:
Mr. Toad's Orchid Adventure

Sat., Jan. 28 through Sun., Mar. 12, 2006;
9 a.m. to 5 p.m. daily

$3 for adults and children
in addition to Garden admission;

Free for Garden members.

photo by Josh Monken

Orchid show 2006 takes as its fanciful setting the beloved classic of children's literature, *The Wind in the Willows*, by Scottish author Kenneth Grahame. "Mr Toad's Orchid Adventure" traces the journey of four friends—Rat, Badger, Mole, and Toad— in a series of vignettes as they picnic, boat across the river, stroll though the forest, and reach the Weary Travelers' Hotel, all the while surrounded by a tangle of vines and shrubs studded with the Garden's award-winning collection of rare and exotic orchids.

"People may see orchids in the show they haven't seen in awhile," says Blanche "Babs" Wagner, the Garden's orchid horticulturist. "The hot summer slowed things down a bit, so many of the orchids will be blooming later, and thus can be included in the show." Wagner expertly juggles temperatures in the greenhouse orchid range starting in the fall to force early blooming or to delay blooms for the show. The Horticulture Division's greenhouse and floral display staff and a busy group of volunteers plan and prepare for the show months in advance.

Orchid shapes, sizes, and colors are incredibly diverse and many are fragrant. They constitute the Garden's largest living collection, with some specimens dating back over 100 years. The Garden has over 8,000 orchids, representing some 2,500 species, varieties, and hybrids, including many rare and unusual plants. For example, several of the *Cattleya* hybrids in this year's show were crossed many years ago and are no longer available today. Don't miss the Vanilla orchids; the Garden has one of the largest collections of Vanilla orchid species in North America. One of the Garden's *Vanilla planifolia* (the species used in vanilla extract) dates back to 1904. A sample of the orchid collection can be viewed year-round in the atrium of the Beaumont Room in the Ridgway Center and in rotating Climatron orchid displays. However, only in February and March during the annual orchid show are visitors able to view this living collection in such great numbers.

Visitors who return throughout the six-week show may notice subtle changes from week to week as fresh blooms are added. "We start out with about 800 orchids in the show," says Babs Wagner, "and I switch out approximately 100 per week to get as much diversity as possible."

Throughout the show, visit the Garden Gate Shop for an outstanding selection of orchid plants and gardening accessories. Proceeds support the Missouri Botanical Garden.

Members' Preview...

Don't miss the members-only sneak preview and evening viewing of the 2006 orchid show, complete with music and a cash bar, on Friday, January 27, from 5 to 8 p.m. A dinner buffet is available for $17.95 per person. For more information, call (314) 577-5154.

The World of Moss

Included each year in the supporting cast of the orchid show are several species of mosses, including Sphagnum moss (*Sphagnum cymbifolium*), used in potting; Spanish moss (*Tillandsia usneoides*), those elegant "gray beards" draped from the trees; and Log moss (various species of *Musci*). However, these three examples represent completely different families, botanically speaking: a commercial peat, an epiphyte or air plant related to the pineapple, and finally, a true moss. Confusing? "The common name 'moss' reflects usage and perception of similar-looking plants used by the public rather than a formal scientific designation," says Dr. Robert Magill, Director of Research and a moss specialist. "Scientifically, mosses are nonvascular plants and do not possess true roots, stems, or leaves." The Missouri Botanical Garden boasts the world's foremost center for the study of mosses, known as "bryology." Six Garden Ph.D. bryologists actively work on research programs in North, Central and South America, Africa, and Southeast Asia. The Garden maintains a vast library of bryophyte resources, including over 480,000 herbarium specimens, bryological library, and an Index of Mosses database with over 108,000 named bryophytes.

photo by Elizabeth McNulty

Garden bryology staff from back left: Dr. Robert Magill, Patricia Eckel, Dr. Richard Zander, Dr. Marshall Crosby, John Atwood Grad Student, Dr. Si He, Carl Darigo volunteer, Dr. Bruce Allen.
Seated: Lynn Freiermuth, Carol Hebblethwaite, Dolly Darigo volunteer.
Not pictured: Dr. Steve Churchill , Leonardo Mourre.

what to do in your garden now...

clip and save

photo by Emily Snider

january

all month

- ❑ Brush off heavy snow, but allow ice to melt naturally from plants. Limbs damaged by ice or snow should be pruned off promptly to prevent bark from tearing. Avoid salt or ice melters as these may injure plants; instead use sand, bird seed, sawdust, or vermiculite to gain traction on icy paths.
- ❑ Make a resolution to keep records of your garden this year. Inventory the plants in your home landscape and note past performance.
- ❑ Check all fruit trees for evidence of rodent injury to bark. Use baits or traps where necessary.
- ❑ Avoid foot traffic on frozen lawns as this may injure turf grasses.
- ❑ Some plants are sensitive to flourine and chlorine in tap water. Water containers should stand overnight to allow these gases to dissipate. Allow water to warm to room temperature before using on houseplants.
- ❑ Wash the dust off of houseplant leaves on a regular basis. This allows the leaves to gather light more efficiently and will result in better growth.
- ❑ Fluffy, white mealy bugs on houseplants are easily killed by touching them with a cotton swab of rubbing alcohol.
- ❑ Insecticidal soap sprays can be safely applied to most houseplants for the control of many insect pests.
- ❑ To clean heavily encrusted clay pots, scrub them with a steel wool pad after they have soaked overnight in a solution consisting of 1 gallon of water, and one cup each of white vinegar and household bleach.

weeks 1–2

- ❑ Quarantine new gift plants to be sure they do not harbor any insect pests.
- ❑ If you didn't get your bulbs planted before the ground froze, plant them immediately in individual peat pots and place the pots in flats. Set them outside where it is cold and bury under thick blankets of leaves. Transplant them into the garden when weather permits.

week 3

- ❑ Remove spent Amaryllis flowers after blooming. Set the plant on a bright sunny window to allow the leaves to develop fully. Keep the soil evenly moist, not soggy. Fertilize occasionally with a general purpose houseplant formulation.

week 4

- ❑ Try sprouting a test sample of leftover seeds before ordering new seeds for spring. (Roll up 10 seeds in a damp paper towel. Keep moist and warm. Check for germination in a week. If fewer than half sprout, order fresh seed.)

For additional information on plant care and gardening:

- *visit the Kemper Center for Home Gardening*
- *call the Horticultural Answer Service, Monday through Saturday, 9 a.m. to noon, at (314) 577-5143.*
- *check out the Gardening Help section at www.mobot.org*

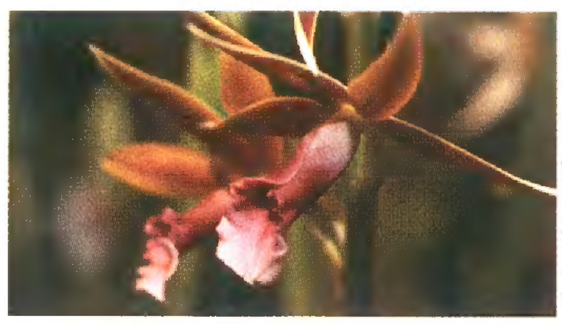


photo by Josh Monken

february

all month

- ❑ Don't work garden soils if they are wet. Squeeze a handful of soil to form a ball. If it is sticky, allow the soil to dry further before tilling or spading.
- ❑ Start onion seed indoors now.
- ❑ Inspect fruit trees for tent caterpillar egg masses. Eggs appear as dark brown or grey collars that encircle small twigs. Destroy by pruning or scratching off with your thumbnail.
- ❑ Water evergreens if the soil is dry and unfrozen.
- ❑ Take geranium cuttings now.
- ❑ To avoid injury to lawns, keep foot traffic to a minimum when soils are wet or frozen.
- ❑ Repot any rootbound houseplants before vigorous growth occurs. Choose a new container that is only 1–2 in. larger in diameter.

week 1

- ❑ Branches of pussy willow, quince, crabapple, forsythia, pear, and flowering cherry may be forced indoors. Place cut stems in a vase of water and change the water every four days.

week 2

- ❑ Start seeds of slow-growing annuals like ageratum, verbena, petunias, geraniums, coleus, impatiens, and salvia indoors.
- ❑ Maple sugaring time is here! Freezing nights and mild days make the sap flow.
- ❑ Fertilize houseplants only if they show signs of new growth.

week 3

- ❑ Sow celery and celeriac seeds indoors now.
- ❑ Begin pruning fruit trees. Peaches and nectarines should be pruned just before they bloom. When pruning diseased branches, sterilize tools with a spray of germicide between cuts. Dry your tools and rub them lightly with oil to prevent rusting.
- ❑ Sow seeds of larkspur, sweet peas, shirley poppies, and snapdragons outdoors. To bloom best, these plants must sprout and begin growth well before warm weather arrives.
- ❑ Now is a good time to apply appropriate sprays for the control of lawn weeds such as chickweed and dandelion.

week 4

- ❑ Sow seeds of broccoli, brussels sprouts, cauliflower, and cabbage indoors for transplanting into the garden this spring. If soil conditions allow, take a chance sowing peas, lettuce, spinach, and radish. If the weather obliges, you will be rewarded with extra early harvests.
- ❑ Fertilize established fruit trees once frost leaves the ground. Use about ½ lb. of 12-12-12 per tree, per year of age, up to a maximum of 10 lbs. per tree. Broadcast fertilizers over the root zone staying at least a foot from the tree trunk.
- ❑ Dormant sprays can be applied to ornamental trees and shrubs on a mild day while temperatures are above freezing.
- ❑ Start tuberous begonias indoors now. "Nonstop" varieties perform well in this climate.
- ❑ Encourage birds to nest in your yard by providing water and by putting up bird houses. Planting suitable shrubs, trees, vines, and evergreens will provide wild food sources and nesting habitat.

Get Under Glass

During the blustery months of January and February in St. Louis, few activities are more enjoyable than visiting the Garden's conservatories, especially the Climatron and the Linnean House.

Walk beneath the native thatch hut entrance to the **Climatron®** conservatory and you'll be transported to a lush lowland rain forest, complete with waterfalls, tropical birds, and some 1,500 rare, fragrant, and interesting plants. When you can't stand another minute of that terribly dry forced-air heat of your home or office, remember the Climatron's average humidity of 85 percent and take a deep breath. At a time of year when the outdoor temperature averages 29 degrees in the St. Louis region, the daytime temperature inside the Climatron is a constant 85°. And many of the fruits of the Climatron come in season in the winter, such as the avocado, carambola (star fruit), cherimoya (custard apple), guava, jackfruit, and jaboticaba, a cherry-like fruit from Brazil, which sprouts on stems directly from the tree trunk. A walk through the Climatron is a mini-vacation for your body and spirit.

Walk into the **Linnean House** this time of year and enter a comfortable 55-degree world of brilliant color and delicate fragrance to delight the senses of the winter-weary visitor. The oldest continuously operating greenhouse conservatory in the United States, the Linnean House features over 50 different camellias, diverse in size, color, floral form, and history. Some have distinguished pasts in China or Japan, like *C. japonica* 'Magnoliaeflora,' which was grown in Japan as long ago as 1695. Others are old European favorites, such as the cultivar *C. japonica* 'Elegans (Chandler),' developed in the early 19th century in London's first specialty camellia nursery. Peak bloom is mid- to late February, so bring your Valentine for this fantastic display of glorious red, white, and pink. Contrary to popular belief, however, most camellias have no scent. The delicious signature fragrance of the Linnean House comes from the fragrant olive trees, *Osmanthus fragrans*, growing at the entrance.

www.mobot.org/gardeningtips/pamindex.shtml

Featured Plant of Merit

Japanese Boxwood

Buxus microphylla var. *japonica* 'Morris Midget'

The Japanese boxwood cultivar Morris Midget is a low-growing, dense, compact, mounded evergreen shrub with a slow annual growth (to 1¼" in height per year). Best grown in average, medium wet, well-drained soil in full sun to part shade, and sited in a sheltered location. Boxwoods can be somewhat temperamental plants to grow in the St. Louis area where evergreen foliage may tend to "bronze" in harsh winters, particularly if plants are located in open areas exposed to winter winds.

Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org

For more than a month in late June and early July 2005, Al-Shebaz traveled with Washington University graduate student Marck Menke and Turkish colleagues, Dr. Ali Dönmez and Dr. Birol Mutlu, in eastern and southern Turkey, through many rocky and mountainous areas, collecting mustard specimens. Turkey is the center of diversity for the genus of mustards known as *Aethionema*, with more than 40 species occurring there.

The trip was the first to Turkey for both American researchers, and both reported a positive experience. "The people of Turkey were very friendly and outgoing," says Marck Menke. "We managed to collect several hundred specimens. And the food was very good! Some of my favorite dishes include *lamaçun* (minced lamb and spices served on pita), *merçimek çorbasi* (lentil soup), and *piliç kebab* (chicken kebabs)."

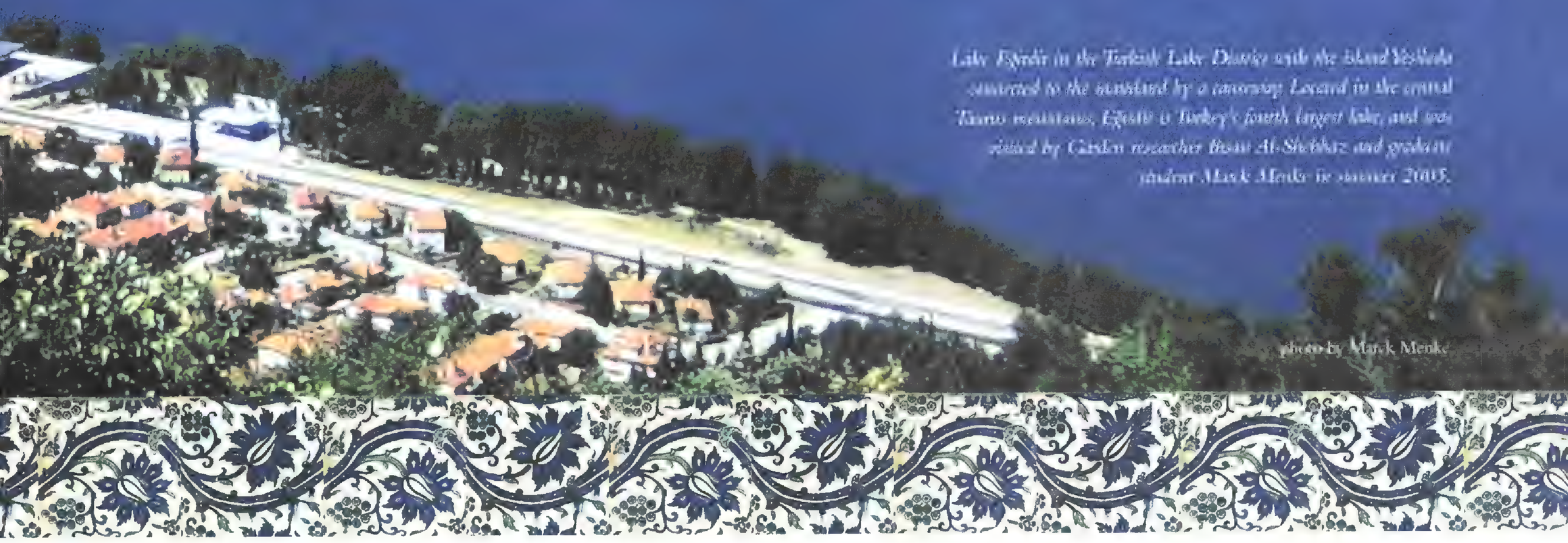
Both researchers hope to return within the following year. In the meantime, their Turkish host, Dr. Dönmez, the director of the herbarium at Hacettepe University in Ankara, will visit the Missouri Botanical Garden to conduct research here for two weeks this January.

TO BYZANTIUM

N RESEARCHERS VISIT TURKEY AND ST. LOUIS PREPARES FOR THE FIRST OTTOMAN GARDEN

With the ancient city of Istanbul straddling the Bosphorus straits, Turkey is where East meets West—literally. A bridge between Europe and Asia, the secular state of Turkey is currently the only predominantly Muslim nation under consideration for European Union membership, and the only NATO member in the Middle East. Turkey is slightly larger than Texas and borders Armenia, Azerbaijan, Bulgaria, Georgia, Greece, Iran, Iraq, and Syria. The landscape can be lush and resort-like on the lengthy Mediterranean and Black Sea coastlines, or rugged and harsh in the interior high central plateau and mountain ranges—perfect, it turns out, for growing mustards.

"It is absolutely the richest country in the world for mustards, second only to the U.S., but with an area less than one-twentieth the size!" says Dr. Ihsan Al-Shehbaz, Garden Curator and one of the world's foremost experts on the Brassicaceae, or mustard, family.



Lake Eğridir in the Turkish Lake District with the island Yeşilada connected to the mainland by a causeway. Located in the central Taurus mountains, Eğridir is Turkey's fourth largest lake, and was visited by Garden researcher Ihsan Al-Shehbaz and graduate student Mark Menke in summer 2005.

photo by Mark Menke

A New Garden

Already underway at the Missouri Botanical Garden is construction of the first Turkish garden of its kind in the U.S. This unique one-quarter acre garden, devoted to the enjoyment of the senses, will be located northeast of the historic Linnean House conservatory. Designers hope that this beautiful and interesting new garden will help to create an understanding of Turkish history during the Ottoman Empire.

The Ottoman Empire endured for over six centuries, from 1281 to 1922, in part due to their flexible system of government, which accommodated the practice of diverse religions, languages, and cultures. They inherited and assimilated the remains of the Byzantine Empire, founded when Rome transferred rule to Constantinople (now Istanbul) in 324, and merged these Greco-Roman-Mediterranean customs with their Islamic traditions. The Ottomans saw all of nature—flowers, plants, animals, the very Earth itself—as manifestations of God, and built gardens as an attempt to approximate the garden of Eden. The Missouri Botanical Garden's new Ottoman Garden is based on these "Gardens of Paradise" popularized in the 17th and 18th centuries.

Within the new walled Ottoman Garden, traditional plantings will include exotic citrus, climbing fragrant roses, classic Turkish tulips and drifts of bulbs, aromatic herbs, pomegranate, lilac, and shady perennials set within a private courtyard. Visitors' senses will be piqued by the visually lush and peaceful setting;

"The new Missouri Botanical Garden's Ottoman Garden is based on these

GARDENS OF PARADISE"

continued...

the fragrance of blossoms and herbs; the music of water; the earthy patina of surrounding walls and columns; and the feel of the antique brick and stone beneath their feet.

The entry will feature a wooden double door gateway within an aged stucco wall with a gabled, terra-cotta tile roof overhead. Iron grille windows will offer enticing views of the garden within. A colored tile inscription above the arched doorway will honor the Great Benefactor.

Various fountains and artifacts that will be created in Turkey especially for the Ottoman Garden will provide a strong sense of authenticity. A stone *cesme* pedestal fountain will invite visitors to wash their hands as they begin their tour. Oleanders lining the walkway will lead to the center focal point, a shallow pool of water known as a *havuz*, which will create the overall garden atmosphere. Water will spout gently from small jets along its rim and the center stone water bowl will symbolize the Source of Life and the River of Paradise.

Beyond plantings of cypress, roses, fig, and jasmine, a paved patio covered with a wood arbor, or *cardak*, will be planted with grapes and gourds. A textured stucco wall with tile roof, painted murals, decorations, and stone birdhouses will enclose one side of the patio. Its earthy patina will be accented by the gentle sound of water dripping along tiers of the wall fountain, or *selsebil*.

The new Ottoman Garden is being made possible by a gift from the late Edward L. Bakewell, Jr. It is scheduled to open in spring 2006.

At right: A 15th-century portrait of Sultan Mehmed II "the Conqueror" smelling a rose. Below: Detail of a pomegranate from Köhler's Medicinal Plants *in the Garden's rare book collection. Visit www.illustratedgarden.org for more examples.*

photo by Mark Deering

Idea leuconoe, or paper kite, feeding on nectar from a peregrina Jatropha interrima *flower.*

Species Profile: Paper Kite

by Mark Deering, Curator of Butterflies

The *Idea leuconoe*, or paper kite, is a large, showy butterfly with a very large home range throughout Southeast Asia, but those seen in free flight at the Butterfly House come from Malaysia and the Philippines. The chrysalis of this butterfly is so incredibly striking—bright gold with black spots—that visitors sometimes wonder whether it is real! It's hard to imagine a black-and-white striped butterfly coming out of that polka dot chrysalis.

The paper kite uses its color for more than just a flashy "hello." The striking black and white markings of this species, along with its characteristic slow flight, send a message to potential predators: this butterfly probably tastes bad! Biologists call this type of "anti-predator" advertisement *aposematism*. Paper kites are members of the subfamily Danainae, many of which—such as monarch butterflies, for example—are chemically protected by the plants their caterpillars eat. Though paper kites have a good defense for avoiding predation, they are still susceptible to other problems, such as parasites and bacteria.

At the Butterfly House, paper kites love to visit flowers during the day, gathering the sugar rich nectar which makes up their diet. Paper kites are very good at pollination. The butterflies seeking nectar at flowers are covered in pollen, and when they visit other flowers they pollinate them, helping to complete the plants' reproductive cycles. Their love for flowers—and their penchant for landing on visitors—make paper kites one of the most popular butterflies at the Butterfly House.

Butterfly House

15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

More than a thousand live tropical butterflies are in free flight inside the glass conservatory at the Sophia M. Sachs Butterfly House. Visit native and migrating species in the outdoor gardens of the Butterfly Garden. Watch a butterfly emerge from a chrysalis right before your eyes. Whatever your age, you'll enjoy a trip to the Butterfly House where wonder takes flight!

garden at large *(continued)*

Prescribed Woodland Burning

by Dr. James C. Trager, Restoration Biologist

Fire has gained wide acceptance as a management tool in Midwestern grasslands. Recently, it has gained increased usage for controlling invasve species and improving native animal an dplant haitat in wooded areas too. Winter is the best time to view the effects of fire at the Shaw Nature Reserve. Hike around and see the burnt areas now and as they rejuvenate this spring. The fossil record indicates that "wildfires" are as old as the history of vegetation on Earth. A wealth of evidence points to frequent fire as a feature of the natural environment in this region when first encountered by European settlers. At the Reserve, we use fire to recreate this feature of the pre-settlement environment.

Many plants of this area require fire, either to stimulate growth or germination in the short-term or to maintain appropriate habitat for their long-term survival. Fire in the woods does kill some smaller trees, and some species not naturally a component of oak-hickory woodland. In a low-intensity woodland burn of the sort conducted at the Reserve, most larger trees—and even some saplings—survive the fire.

The long-term effect of repeated burning of the woods is a more open woodland, which is a goal of the SNR upland forest restoration. Open woodlands interspersed with grass and wildflowers were the typical vegetation reported on the ridges and upper slopes of this region when first seen by naturalists in the early 1800s. Wide spacing is the healthiest condition for an oak-hickory woodland, Missouri's prime wildlife habitat, as these trees grow best in the better lighting conditions and produce more acorns or nuts (vital wildlife food). A rich array of grasses and wildflowers grows in open woodlands and oak savanna. These plants in turn provide food, nest materials, and other necessities to many large and small animal species, which cannot survive in the shadier forest.

SHAW NATURE RESERVE

Hwy. 100 & 44 (exit 253)
Gray Summit, MO 63039
phone: (636) 451-3512
www.shawnature.org

Founded in 1925, the Shaw Nature Reserve encompasses 2,400 acres of tall-grass prairie, forests and glades, woodlands and wetlands, into 14 miles of hiking trails.

Home Performance with Energy Star

by Jean Ponzi, Program Manager

The Garden's EarthWays Center wants to see St. Louis area homes become top performers! We educate homeowners about ways to approach renovation or building so that all systems in a house function as a healthy and efficient whole, like systems in the natural world.

Coordinated by EarthWays Center manager Glenda Abney, the Home Performance With Energy Star program has trained and certified local contractors now at work throughout the region, conducting whole-house diagnostic tests and working with homeowners to make improvements based on these audits. UMB Bank, a key local partner, offers low-interest loans to support upgrades to participants' homes. Program sponsors are the U.S. EPA and the Missouri Department of Natural Resources.

"Guided tours of EarthWays Center are a good way for us to educate visitors of all ages about green-building products and practices for the home," says Abney. "We introduce people to concepts of whole-building science through features they see in use here, such as the critical interaction between good insulation, properly sized heating and cooling units, and effective air sealing. And when people call on us for advice about home operation problems, we can confidently refer them to professionals accredited through Home Performance With Energy Star."

Is one room of your house too hot or too cold? Do you have a moisture, mold, or allergy issue? The EarthWays Center team can help Garden members conserve family budgets and natural resources in homes that live up to their star potential. Come for a tour (see Calendar), call, or visit us online to learn more about these services.

At left: Home audits address safety concerns like carbon monoxide leaks, while checking equipment efficiency.

EARTH CENTER WAYS

3617 Grandel Square
St. Louis, MO 63108
phone (314) 577-0220
fax (314) 577-0298
www.earthwayscenter.org

Visit EarthWays Center on our Public Tour Days (see calendar). Bring your club, church, co-workers, or school for a group tour. Explore our resources online, or call us to learn more about what interests you.

photo by Ryan Rumbergen

behind the scenes...

in winter

While nature slumbers, and home gardeners take to their armchairs with stacks of catalogs, horticulturists at the Missouri Botanical Garden are busy as can be with all the many activities needed to keep a 79-acre showplace of over 40 gardens in top form.

"The greatest thing about winter," says the Garden's interim Director of Horticulture James Cocos, "is the freedom from Nature's schedule! During the growing season, horticulturists experience tremendous pressure to stay on top of the planting, weeding, watering, mulching, etc. In winter, there is still plenty of work, but, other than clearing snow and ice, we can generally set our own timetable."

- Outdoor gardeners bundle up in layers for warmth, prune trees and shrubs, blow snow and clear ice, and spread seed to grow prairie grasses.
- In the shop, horticulturists clean and repair their tools; sharpen pruners, shovels, and mower blades; manufacture plant ID signs; and even perform engine tune-ups on mowers.
- In the greenhouses, plant propagation is in fast and furious production, growing spring annuals, baskets, and inserts for containers and Garden grounds.

And of course, like many home gardeners, Garden horticulturists devote time to planning the landscape design for their respective areas of responsibility and placing orders for plant materials within their budget.

The winter is made and you have to bear it.
—Wallace Stevens.

photos by Emily Snider

likes and dislikes

"I like winter for the blue skies, especially after newly fallen snow. I dislike working in freezing rain."
Ben Chu, supervisor South End

"I love the bare trees and their beautiful forms visible in winter. I dislike clearing snow!"
June Hutson, senior horticulturist, Kemper Center

photo by Lisa Francis

tributes

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding giving opportunities at the Garden, please call (314) 577-5118. You can also make a tribute gift online at our website, www.mobot.org.

September–October 2005

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Orchid Fever

Brighten your winter days with a beautiful orchid from the Garden Gate Shop. We will have a fabulous selection of orchids for you to choose from on January 27. Until then the shop will be closed for renovations. Please join us for the opening of the orchid show and the shop!

Members' Sales
January 27, 5 to 8 p.m.
February 24, 9 a.m. to 5 p.m.

photo by Justin Visnesky

Garden Gate Shop

4344 Shaw Boulevard • (314) 577-5137
All proceeds benefit the Garden.

Hours: The shop will be closed January 1–26.
Regular hours are 9 a.m. to 5 p.m. daily.

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create a legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call the Development Office at (314) 577-5120 for further information and a complimentary brochure. Visit our website at www.mobot.org. Click on Membership, then Planned Giving Guide.

Butterfly House tributes

For information on making a gift to the Butterfly House Tribute Fund, please call (314) 577-0297.

in memory of

Mrs. Betty Manlin
Ms. Jackie Juras

in honor of

Mrs. Jessie Littrell
Westward Hoe Garden Club

Helen Meadows
Mr. and Mrs. Hubert Heimos

Butterfly House pavers

Butterfly House pavers are a great way to recognize graduations, weddings, birthdays, holidays, and memorials. For information, call Fay Orr at (314) 577-0874.

Lois Bennett
Craig Bennett

Julie and Aaron Herzon
Mary Ruth Donnelly

Tracy and Chuck McDonnal
Tracy Gaugh

Mary Jane Smith
Robert L. Smith

Tributes and Pavers donated to the Butterfly House from September to October 2005.

members' entry court

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact Fay Orr at (314) 577-0874 or visit our website, www.mobot.org.

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from September 15 through November 15.

bronze signature bricks

Albert G. Berger
Mr. Richard A. Berger

Ed and Marilyn Bertram
Mr. and Mrs. Ed Bertram

Roberta Castle
Mr. and Mrs. William Castle

Dorothy and Billy Firestone
Mr. and Mrs. William Firestone

Don and Linda Kloth
Mr. and Mrs. Don Kloth

C. T. Lange
Mrs. C. T. Lange

Larkspur
Mrs. Mary Ann Pelot

The Leer Family
Mr. and Mrs. Steven Leer

Mr. and Mrs. William T. O'Byrne
Mr. and Mrs. William T. O'Byrne

Charles M. Peltason, Jr.
Mr. Charles M. Peltason

Mary Quatrano
Dr. and Mrs. Ralph Quatrano

Marylynn Mayberry Ross
Dr. Theresa Mayberry-Dunn

Bill Ellyn and Bob Theobald
Mr. and Mrs. Bill Theobald

Chuck and Cathi Vaaler
Mr. and Mrs. Charles Vaaler

Bonnie Whitworth
Barbara Whitworth

Kathleen and Jim Woodworth
Mr. and Mrs. James Woodworth

engraved clay bricks

Maryetta Jim Anna Bill
Mr. Henry Rohrs

Sara G. Costigan
Mr. David J. Costigan

Chris and Earlene Dalton
Ms. Kim Faber

Darrell and Suzie Dubose
Suzanne Dubose

Richard Lee Faust
Mr. Carlon E. Faust, Jr.

Susan K. Ferber
Susan K. Ferber

Helen Ann Golenda
Mr. and Mrs. Shu F. Cheuk
Mr. and Mrs. Stanley Wainauski
Mrs. Gloria Whyte
Mr. and Mrs. Michael Whyte

Rita Heitmeyer
Mr. and Mrs. Ted Heitmeyer

Hays and Lydia Hope
Mr. and Mrs. Joseph Preston

Otto and Lydia Jasper
Mr. Robert Schaefer

Ted and Emma Kampe
Mrs. Betty Wood

Michael Samuel Kodner
Marsha and Larry Rothman

Jenn and Matt Kolar-Burden
Mr. and Mrs. James Kolar

Bill and Sue Kraemer
Mr. and Mrs. Sonny Kraemer

Rich and Bev Lenger
Mr. and Mrs. Richard Lenger

Jean Ohrn Natsch
Mrs. Cindy Natsch and Family

Linda Sue Nolte
Tucker's Place – South

Sheila and Terry O'Toole
Mr. and Mrs. Terrence O'Toole

Donald and Sharon Roberts
Donald and Sharon Roberts

Alma Schaefer
Mr. Robert Schaefer

Susanne
Mr. Nicholous Detert

Amy and Brett Willingham
Mrs. Rita Willingham

2006 corporate partners

Principal Level
($25,000 and up)
Commerce Bank
Monsanto Company
Schnuck Markets, Inc.

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The Boeing Company
Bryan Cave LLP
Bunge North America, Inc.
CBIZ Accounting, Tax & Advisory/Mayer Hoffman McCann P.C.
The May Department Stores Company
Sigma-Aldrich Corporation

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McBride & Son Homes, Inc.
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Alberici Constructors
Forms Distribution Corporation
Graybar Foundation

Supporter Level
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Catering St. Louis, Inc.
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Dierbergs Markets, Inc.
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City of O'Fallon, Illinois
Regions Bank
Sachs Properties, Inc.
SSE
Stone Carlie & Company
Thompson Coburn LLP
Mallinckrodt/Tyco Healthcare
Willaredt Acres, Inc.

photo by Jack Jennings

Birding Festival

Saturday & Sunday, February 4 & 5, Ridgway
Birdwatching, workshops, guided tours, information booths and activities for all ages, from young children to adults, beginners to advanced birders. Many activities included with Garden admission; workshops require pre-registration and fee in conjunction with the annual Great Backyard Bird Count (Feb. 17 to 20). Check the Garden website for details.

photo by JKevin Wolf

Black History Month

Friday, February 24, 5-8 p.m.
Commerce Bank Center for Science Education, 4651 Shaw at Kingshighway
February is Black History Month. As we mark the inaugural year of the new George Washington Carver Garden, join us to learn about the Carver National Consortium and Carver-themed science projects developed by students at the Garden Education Compact schools. See photographs, displays, and a preview of new spring programming for kids.

photo by Maggie Matthews

Hot-Hot-Hot

Saturday, January 21, 11 a.m. to 2 p.m.
Butterfly House
This winter, thaw out where it's "Hot-Hot-Hot!" Play tropical games, create cool crafts, build a sand castle, enjoy steel drum music, and transport yourself to the tropics inside the glass conservatory, where more than one thousand butterflies fly amid tropical plants. For kids 3–10 to enjoy along with a parent. Included with admission. Visit www.butterflyhouse.org for details.

just for members...

2006 Members' Days

Every month, Garden members enjoy special events, tours, walks, and lectures by local experts. Plan ahead to attend throughout 2006!

January 20	ABC's of Green Building with Jean Ponzi
February 24	Tour of the renovated Tower Grove House
March 16	Butterfly House tour
March 28	Great Garden Contest with Becky Homan
TBD	Chihuly lecture by Duane Reed
May 23	Rose Evening Brick Donor Recognition
June 2	Musical Evening at the Butterfly House
June 6	Butterfly House
July 10	Tour of the new Children's Garden
August 11	Tropical Plants in the Landscape with Chris Kelly
September 10	Grandparents' Day
September 19	Tour of the Carver Garden
October 25	Fall Prairie Walk at SNR
November 9	Holiday Decorating
December 9	Holiday Concert

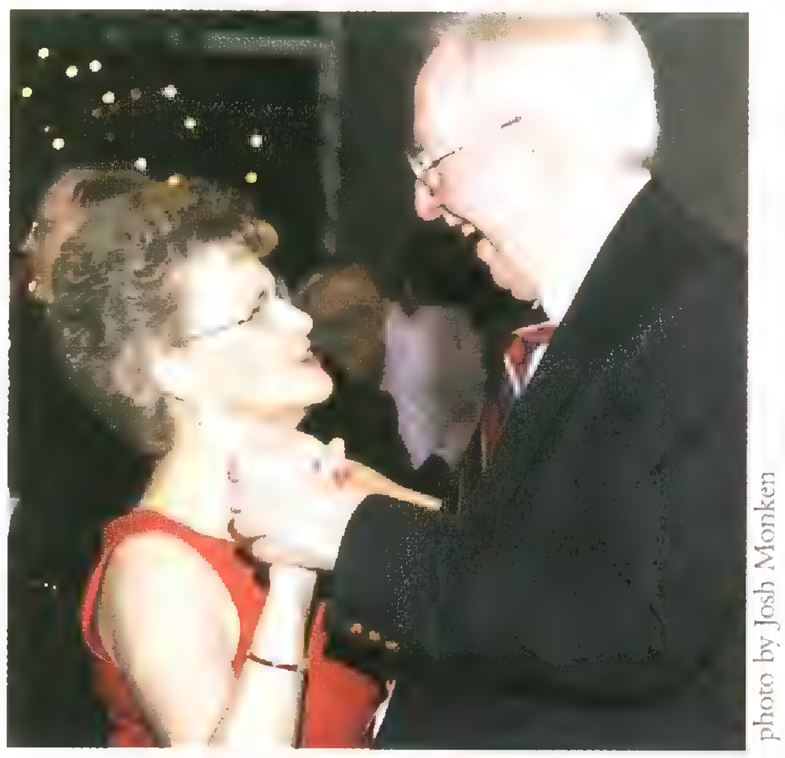

photo by Josh Monken

Valentine's Day Dinner Dance

Saturday, February 11, 6:30 to 10 p.m.,
Piper Palm House, Tower Grove Park
Bring your sweetheart to our romantic Valentine Day Dinner Dance. Enjoy a gourmet dinner in the Piper Palm House in Tower Grove Park and dance the night away with your very special someone. Dinner is served from 6:30 to 7:30 p.m. with music and dancing until 10 p.m. Cash bar. By reservation only; tickets are $60 per person. Seating is very limited in this alternate location (due to construction), so please call (314) 577-5154 soon to reserve your spot.

Members' Day: The ABC's of Green Building

Friday, January 20, 11 a.m.
Monsanto Center, 4500 Shaw Avenue
We've heard the term "green building" used in the media, but what exactly does this term mean? Did you know that a major Garden research facility is an example? Jean Ponzi, Program Manager of the EarthWays Center, leads a virtual tour of green buildings both in St. Louis and around the country.

Members' Day: Tower Grove House Tour

Friday, February 24, 11 a.m.
Shoenberg Auditorium
Closed two years for renovation and reinterpretation, Tower Grove House reopens this month with new displays on Garden history. Join Amy Haake, Tower Grove House manager, for a presentation highlighting the changes. Then walk through the Garden and visit Tower Grove House and see this Victorian country estate as it was when Henry Shaw lived here and planned what would become a world-renowned botanical garden.

Missouri Botanical Garden Library
3 1753 00330 6724

calendar of events...

the key

BH = Butterfly House
CA = Cohen Amphitheater
CL = Climatron
EC = EarthWays Center
GGS = Garden Gate Shop
JG = Japanese Garden
KC = Kemper Center
LS = Little Shop Around the Corner
MC = Monsanto Center
RC = Ridgway Center
SNR = Shaw Nature Reserve
SP = Spink Pavilion
** denotes a members-only event
$ denotes an additional fee
☎ denotes reservations required

january

sunday	monday	tuesday	wednesday	thursday	friday	saturday
01 *The Ridgway Center is closed until January 27. Tram tours resume in March.*	02	03	04	05	06 Camp BUGaloo: Mother Goose and Mother Nature. BH. $☎	07
08	09	10	11	12 Garden Buds: Climatron Rain Forest $☎ Native Plant School: Design Concepts. SNR. $☎	13 Camp BUGaloo: Mother Goose and Mother Nature. BH. $☎	14 Hot-Hot-Hot. BH. BUZZ. BH. $☎
15 Garden Buds: Climatron Rain Forest $☎ Camp BUGaloo: Mother Goose and Mother Nature. BH. $☎	16	17	18	19	20 ** Members' Day: The ABC's of Green Building. See page 22.	21 Public tours. EC.
22 Public tours. EC.	23	24	25	26	27 ** Members' Event Orchid Show Preview. See page 9. Garden Gate Shop reopens	28 through Sun., Mar. 12 Orchid Show, see page 8. $
29	30	31	01 *Register now for spring classes and tours at www.mobot.org/gardeninghelp.*	02	03 Camp BUGaloo. BH. $☎	04 Birding Festival. See page 9. $☎
05 Birding Festival. See page 22. $☎	06	07	08	09 Garden Buds: Mr. Toad's Orchid Adventure. $☎ Native Plant School: Plant Propagation. SNR. $☎	10 Camp BUGaloo. BH. $☎	11 ** Members' Event: Valentine Day Dinner Dance. See page 22.
12 Garden Buds: Mr. Toad's Orchid Adventure. $☎ Camp BUGaloo. BH. $☎	13	14	15	16	17	18 Missouri Orchid Society show and sale. 12-5 p.m. Public tours. EC.
19 Missouri Orchid Society show and sale. Public tours. EC.	20	21 through Mar. 31 "Flower Power" exhibition by Burt Remis	22	23	24 ** Members' Day Tower Grove House Tour. See page 22. Celebrate Black History month at the Carver Garden. See page 22.	25
26	27	28				

Missouri Botanical Garden plant society contact information can be found at www.mobot.org/hort/activ/contacts.shtml

photos by Lisa Francis Hall and Josh Monken and Charles Schmidt

Please check MBG, SNR, EC, and BH websites for more details.

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general information

The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Open until 8 p.m. on Wednesdays until Labor Day. Parking is free.

Adults age 13–64 ..... $8
Members and children 12 and under .... free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings from 9 a.m. to noon (unless special event pricing applies).

**Special events may require an additional fee.*

General Garden ..... (314) 577-5100
Catering/Rentals ..... (314) 577-0200
Education ..... (314) 577-5140
Garden Gate Shop ..... (314) 577-5137
Group Tours ..... (314) 577-0275
Membership ..... (314) 577-5118

camellias

peak bloom: mid- to late-February
inside the historic Linnean House

credits

Editor: Elizabeth McNulty
Designers: Matt Bender, Ellen Flesch, and Justin Visnesky
Cover photo: Orchid Show, Cymbidium hybrid, photo by JJ Lane
Back cover photo: Camellias in the Linnean House, photo by Lisa Francis

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The BULLETIN (ISSN 0026-6507) is published bi-monthly by the Missouri Botanical Garden, 4344 Shaw Blvd, St. Louis, MO 63110.
Periodicals postage paid at St. Louis, MO.

Postmaster: Please send address changes to: *Bulletin*, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

Printed on 100% post-consumer recycled paper manufactured with 100% wind power.

MISSOURI BOTANICAL GARDEN
P.O. Box 299 • St. Louis, MO 63166–0299

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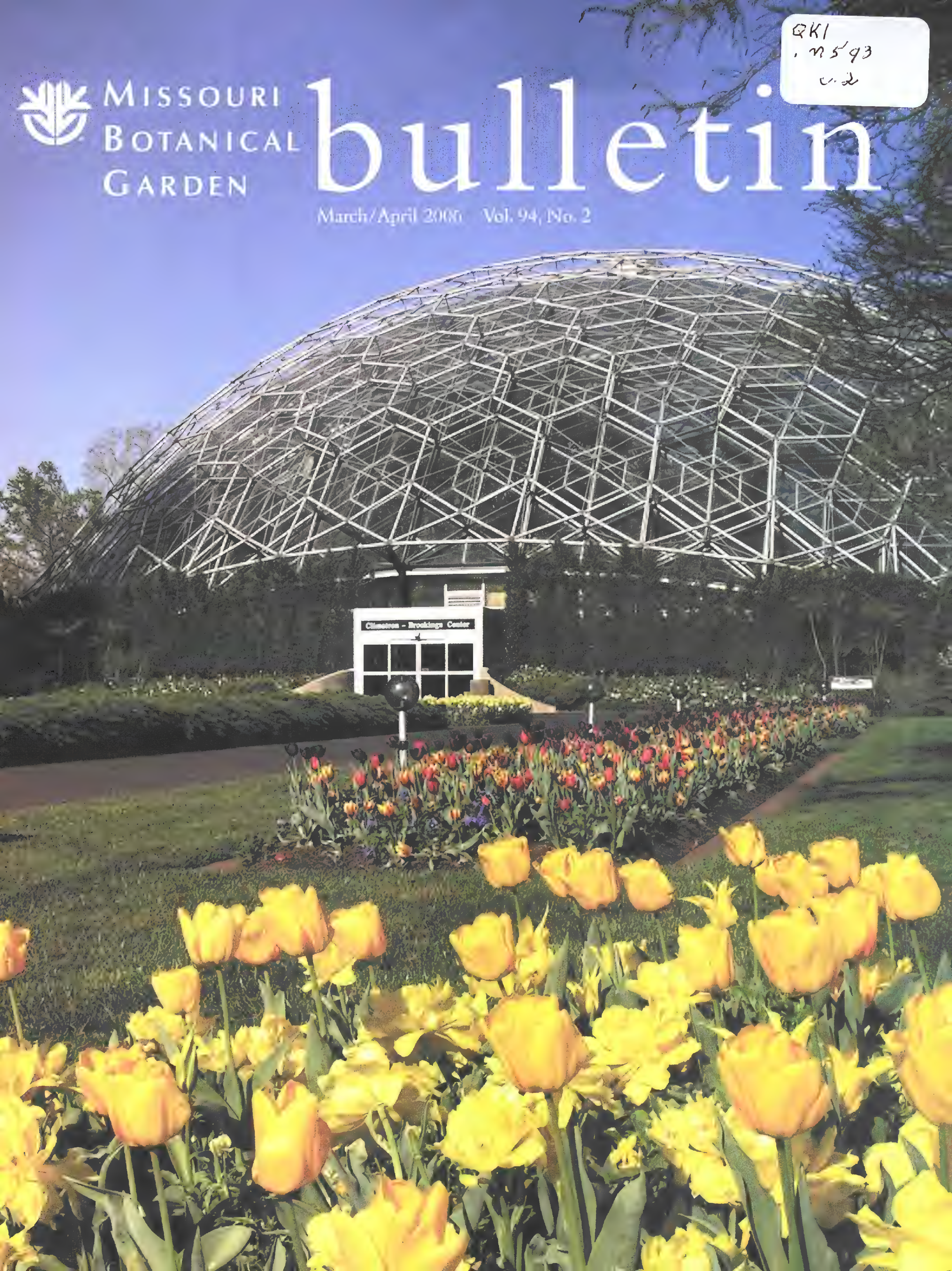
MISSOURI BOTANICAL GARDEN

bulletin

March/April 2008 Vol. 94, No. 2



from the president.

Springtime always brings tremendous excitement to the Garden, but this year, more than ever. Not only will we witness the rebirth of the 79 acres of gorgeous horticultural display, which we enjoy each year, but springtime 2006 also brings the grand opening of one of the most important attractions for families in the St. Louis area: the Doris I. Schnuck Children's Garden: A Missouri Adventure. The Garden is pleased to acknowledge the generosity of the Schnuck family, who contributed the lead gift in honor of their mother, as well as the many donors who helped make this fantastic new garden a reality.

Also this spring, we open *Glass in the Garden: Chihuly at the Missouri Botanical Garden*. Hailed as the "premier cultural event of 2006" by the St. Louis Convention and Visitors Commission, this exhibit of custom-designed glass sculptures by renowned artist Dale Chihuly opens April 30. We are very grateful to Emerson, the presenting sponsor, who made this exhibit possible.

As we complete the *Stewards of the Earth* campaign, the largest and most successful campaign in Garden history, the list of supporters to thank grows longer and longer. Donations take many forms, from naming opportunities to endowed positions ensuring the future stability of our research, horticulture, and education programs. Work has begun on a publication highlighting the many accomplishments of the campaign and the many people we are pleased to thank for their contributions.

Finally, as we note on page 5, Scott Schnuck has graciously agreed to continue as Chairman of the Board of Trustees, and Nick Reding has been elected as First Vice-Chair. You may notice that these and other titles have changed. Following the trend for many non-profits, universities, museums, and other cultural institutions, the Garden's Board of Trustees has adopted more business-standard terminology for its management and Board leadership.

Hope to see you on the grounds,

Peter H. Raven

Peter H. Raven
President

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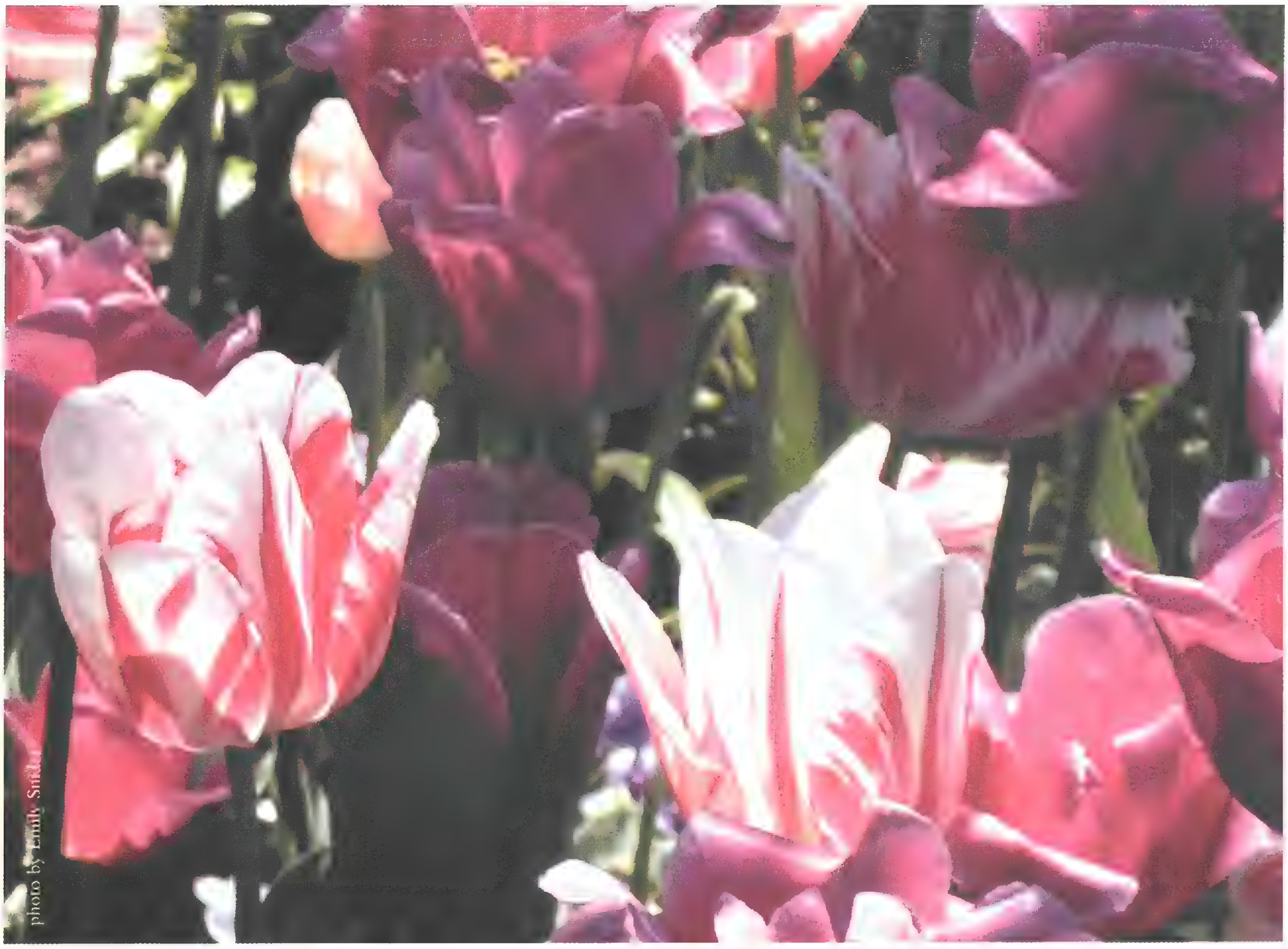


photo by Emily Smith

Single late tulips 'Violet Beauty' and 'Sorbet' (bicolor).

Buried Treasures

How many horticulturists does it take to plant a bulb? How many to plant over 87,000 new bulbs just this year? Senior outdoor horticulturist Jason Delaney worked with five staff and 10 volunteers over the summer and fall of 2005 to restructure the displays in the Samuels Bulb Garden. "In most situations the hardy, perennial bulbs can be left undisturbed indefinitely, but our clumps were growing very large and needed some thinning," notes Delaney.

For bulb-lovers out there, what this means is a radical new composition of varieties on view in 2006. Delaney provides the stats:

- 11,650 crocuses (the Lehman Building lawn and Samuels Bulb Garden);
- 6,175 hyacinths, 26 varieties (bulb gardens);
- 3,205 daffodils, 75 new varieties (bulb gardens);
- 59,410 tulips, 159 varieties (bulb gardens, central axis, Kemper Center)

Large and small quantities of other plants bring the total to 385 unique taxa (varieties) and 87,370 new bulbs added to the garden in the fall of 2005.

Some unique varieties to look for in the bulb gardens this year: tulips 'Jackpot' (violet with white edges) and 'Cummins' (fringed lavender/white); daffodils 'Apricot Whirl' and 'Waltz' (frilled pink-and-white split-corona); and hyacinth 'Hollyhock,' a red double-flowering historic variety dating to 1936, just one of several hyacinths new to the Garden this year. Delaney lists as personal faves the new, all-pink daffodil 'Pink Flush' and the grape hyacinth *Bellevalia pycnantha*: "a blue-black form that is a larger, stouter, later blooming, and very fragrant addition to the easy and reliable grape hyacinth group."

Whether you're here for opening of the Children's Garden, the Chihuly exhibition, or Nature's "change of cloak," the Garden is an exhilarating place to be this spring.

- from "Spring" by Charles D'Orleans, 1391–1465, trans. Sir Henry Wotton

news

what's growing on at the Garden

Photo by Reinoldo Aguilar

Sweet Smell of Success

Garden curator Barry Hammel and Costa Rican collaborator Nelson Zamora have published the discovery of a living fossil, *Pleodendron costaricense,* a rare member of the Wild Cinnamon family, the first to be found in Costa Rica. They owe the eventual identification of the plant to a tantalizing aroma.

Although Costa Rica has over 8,500 species of flowering plants, botanists are well trained in identification based on family, with just over 200 families known from the country, but this tree matched none of them. During an evening of pondering the mysterious specimen with his colleagues, Garden curator Michael Grayum, the original collector Reinaldo Aguilar, and Costa Rica's foremost expert on trees Nelson Zamora, Hammel detected a whiff of Costa Rica's familiar nutmeg family (Myristicaceae). This intuition led him eventually to the related Wild Cinnamon (Canellaceae) family, until then completely unknown in Costa Rica.

"The importance of this discovery lies not only with its odd distribution," says Hammel, "but also because the plant is closely related to the earliest flowering plants. The study of such so-called *living fossils* can give us insight into what the world was like many millions of years ago." Zamora cites this discovery as a prime example of why study and conservation must continue: "*Pleodendron costaricense* is just one of the nearly 10,000 species of vascular plants in the country, each one of them with its own particular story, waiting to be told."

Natural Prairie at Calvary Cemetery

A tiny jewel of Missouri prairie heritage lives in Calvary Cemetery in north St. Louis City overlooking the Mississippi River—the only surviving prairie remnant inside the Highway 270 corridor. The Nature Conservancy, in partnership with the Archdiocese of St. Louis, the Missouri Department of Conservation, the Missouri Botanical Garden, and The Green Center, is working to protect, restore, and sustain this prairie remnant.

Before European settlement, tall-grass prairies covered nearly two-thirds of the area that is now the City of St. Louis. When Auguste Chouteau co-founded St. Louis more than 240 years ago, this low bluff overlooking the Mississippi River floodplain was mostly prairie with a few scattered trees. Today, the northeastern corner of Calvary Cemetery represents the last known remnant of this prairie and the last fragment of the city's once extensive pre-settlement grassland heritage.

Incorporated in 1857, Calvary Cemetery covers 477 acres. Of these, approximately 25 acres contain patches of native prairie remnants with high restoration potential, including the presence of more than 130 species of native flowering plants. This fall, native grass seeds were harvested at the site and will be ready to plant by the spring. The Missouri Botanical Garden will provide scientific expertise and the facilities for the cultivation and replanting of native plants. The Garden's Shaw Nature Reserve in Gray Summit, Missouri, is home to over 200 acres of restored tall-grass prairie.

photo by Sinatra Arnold

Schnuck and Reding

On December 14, 2005, the Missouri Botanical Garden Board of Trustees re-elected Scott Schnuck as Chair and elected trustee Nicholas L. Reding as First Vice-Chair. The Garden's board officers are now referred to as Chair and Vice Chair, rather than President and Vice President. Schnuck has served as President of the Garden's Board of Trustees since February 18, 2004. He is the President and Chief Executive Officer of Schnuck Markets, Inc., a privately held chain of over 100 supermarkets in St. Louis and the Midwest. Reding, a former Executive Vice President of Monsanto, is current Chairman of the Board of Directors of the Nidus Center for Scientific Enterprise, a St. Louis business incubator for entrepreneurs focusing on life sciences.

Members' Board

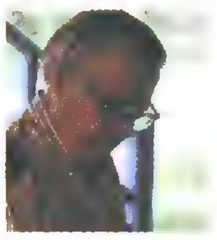
The Missouri Botanical Garden Members' Board held its annual meeting for the installation of new members in January. Members' Board Officers include *(from left)*: Suzanne Deutschmann, Members' Events Secretary; Janet Lange, Second Vice President; Nancy Sauerhoff, President; Terry Rassieur, Treasurer; Carol Squires, First Vice President; and Becky Scott, General Secretary. New members include *(from left)*: Ted Atwood, Silvia Madeo, Patty Keck, and Becky Kridel.

In Memoriam

Guanghua Zhu, Ph.D., 1964–2005

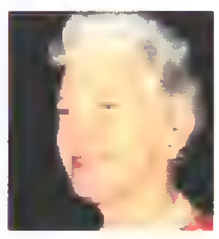
Missouri Botanical Garden botanist Dr. Guanghua Zhu died of lung cancer at Barnes-Jewish Hospital in St. Louis on November 2, 2005. He was 41 years old. Born in Inner Mongolia in 1964, Dr. Zhu came to the United States in 1990 to pursue a Ph.D. at the University of Missouri—St. Louis and the Missouri Botanical Garden. Tom Croat, curator of Araceae (Philodendron family) at the Garden, supervised Zhu's thesis on the systematics *Dracontium*, which was successfully defended in September 1995. Immediately afterward, Dr. Zhu joined the staff at the Missouri Botanical Garden working on the *Flora of China* project, becoming co-director in 2001. He is survived by his wife, Dr. Yuxing Feng, and a son, Yifu, and also by his father, Zhenxi Zhu, his mother, Shifen Guo, an elder brother, Jianhua Zhu, and three elder sisters, Guihua Zhu, Lihua Zhu, and Yuehua Zhu. Volume 22 of the *Flora of China* will be dedicated to Guanghua.

The Missouri Botanical Garden has established a scholarship fund for Dr. Zhu's son, Yifu Zhu, who turned five years old on December 5. To contribute to this fund, please send checks (made payable to the Missouri Botanical Garden) to Scholarship Fund, Attn.: Michael Olson, Missouri Botanical Garden, Post Office Box 299, St. Louis, MO 63166-0299. Contributions are not tax deductible.



John Dwyer, Ph.D., 1915–2005

A world-renowned botanist affiliated with the Missouri Botanical Garden and a professor at Saint Louis University, Dr. John Dwyer died December 6, 2005. He was 90. Dr. Dwyer was chairman of the Saint Louis University Biology Department from 1952 to 1963, and taught over 30 years there, retiring in 1985. Dwyer was also a research associate of the Missouri Botanical Garden since 1954, collaborating on plant-hunting expeditions, specimen identifications, and expanding Garden programs into Panama, Belize, and beyond. Many of his original specimens are now housed at the Garden. Dwyer's specialty was the classification and evolution of tropical, Latin American plants, his primary work concentrated on plant groups that made useful drugs and resins. Dr. James S. Miller, Garden curator and head of applied research, is among Dwyer's former students. He is survived by four sons, John Dwyer Jr. of Webster Groves, Dr. Joseph Dwyer of Branson, Dr. James Dwyer of Sedona, Arizona, and Dr. Jerome Dwyer of Creve Coeur; 12 grandchildren, and four great-grandchildren.



Katharine W. "Kitty" Hoblitzelle, 1930–2006

A longtime Garden supporter and advocate for the environment, Kitty Hoblitzelle died January 19, 2006, of cancer at home in Clayton. She was 76. Mrs. Hoblitzelle was born in Philadelphia and studied at the Philadelphia Museum School of Art, but gardening was a special passion. She was certified as a Master Gardener and a Master Composter, and later founded Gateway Greening Inc., a nonprofit group affiliated with the Missouri Botanical Garden, dedicated to providing resources to communities for transforming neglected and abandoned lots in St. Louis into productive gardens and beautiful landscaped areas. Mrs. Hoblitzelle was also an early supporter of environmental causes, serving on the board of the EarthWays Center, a division of the Missouri Botanical Garden, and the national board of the Center for Plant Conservation. Among survivors are three daughters, Katharine Hoblitzelle Walling of New York City, Trimble Hoblitzelle Stamell of Evanston, Illinois, and Lucy Hoblitzelle of Madison, Wisconsin.; a sister, Virginia Truesdale, of Cumberland, Maine; a brother, Warren Wells, of Needham, Massachusetts; and five grandchildren. Memorial contributions may be made to Gateway Greening Inc., Post Office Box 299, St. Louis, MO 63166. Contributions are tax deductible.

photo by Elizabeth McNulty

Welcome News

Following the retirement of the heads of Horticulture and Education, and the conclusion of the *Stewards of the Earth* campaign, the Garden welcomes three new appointments and the creation of a new position, from left above:

On January 1, the Garden's Director of Development since 1996, Patty Arnold, was promoted to the newly established position of Vice President for Institutional Advancement. Arnold is a Certified Fund Raising Executive, who worked closely with David Kemper and other trustees to lead the Garden's largest and most successful fundraising drive in history, the *Stewards of the Earth* campaign. "Patty knows how to evoke passion for the Garden in the hearts and minds of almost every one of the Garden's supporters," says Garden President Peter H. Raven. Over the past nine years, Arnold has worked with Trustees and key volunteers to direct the membership and other fund raising programs at the Garden. Arnold lives in Kirkwood and is the mother of three sons. In her new role, Arnold will focus on cultivation and continuity of major donors, planned giving, and management of legislative affairs at the national, regional, and local level.

Deborah Cholle Frank was named the new Vice President of Education for the Garden on January 1 following the retirement of Dr. Luther Williams. For the past five years, Frank served as Director of the Garden's EarthWays Center, providing educational outreach to students and adults on topics of energy efficiency, waste reduction, and sustainability. With an M.A. in Engineering and Policy from Washington University, Frank led the establishment of the U.S. Green Building Council's St. Louis Regional Chapter. She brings 25 years of experience in environmental education, management and grant writing experience, and a commitment to excellence in educational outreach at all five Garden education sites. Frank lives with her husband Don in Webster Groves. She is the mother of a college-age son and daughter.

After serving as Interim Director following the retirement of previous head of Horticulture Dr. G. Shannon Smith last year, Jim Cocos was named the new Vice President of Horticulture for the Garden on January 1. An employee of the Garden since 1994, Cocos has served as Horticulture Operations Manager since 1997, a role in which he managed a staff of 43 employees and 150 volunteers, coordinated contractors performing $10 million of new construction at the Garden, and oversaw an annual budget of $2.8 million. Previously, Cocos was the City Horticulturist and Superintendent of Parks for Savannah, Georgia, after running a thriving landscaping business in the St. Louis area. Cocos lives in unincorporated Jefferson County with his wife of 27 years, Pam. They have three sons, one daughter, and one grandson.

Sharon Mertzlufft has been named the new Vice President for Membership and Development. Mertzlufft joined the Garden in May 2003 as the Senior Development Manager, where she has overseen the growth of the Garden's membership program, among the largest of any local organization. Prior to becoming a Garden staff member, Mertzlufft worked for 12 years in development with the United Way, where she honed an array of leadership skills in fundraising and staff team development and management, and has also held marketing positions with G.D. Searle and Tubular Steel Inc. A native of St. Louis, Mertzlufft lives with her husband Bob in St. Charles. In her new assignment, Mertzlufft's attention will be devoted to strategic management of the Membership and Development programs and support of the Members' Board.

Williams Continues as Advisor

After a distinguished career as one of the nation's foremost experts on science and mathematics education, Dr. Luther S. Williams retired last year as the William T. Kemper Director of Education and Interpretation. However, his important work continues as Senior Advisor to the Garden overseeing the continued development of two of his major initiatives. The Garden Education Compact (GEC), launched in 2002, is a unique consortium of 11 K–12 St. Louis public schools in the Garden vicinity, designed to improve students' science and math scores. Williams also continues to work on the development of curriculum and national strategy for the George Washington Carver Garden.

At left: On January 25, 2006, Dr. Williams (right) presented a miniature of the Missouri Botanical Garden Carver statue to Dr. Benjamin Payton, President of Tuskegee University, at the Carver Convocation.

photo courtesy Dr. Luther Williams

photo courtesy Dr. Luther Williams

photo by Kristi Foster

Creating a Lasting Endowment

Over the past 30 years the Garden has emerged as the world's preeminent institution for botanical research, education, and display. Its Ph.D. research staff has grown from four to 48. Horticultural displays on the grounds have grown from ten acres to 79. Educational programs have grown from small on-grounds classes to a burgeoning multi-disciplinary, multi-site effort to provide math and science curricula and instruction to over 100,000 students. Henry Shaw left the Garden with an adequate endowment for 1889, but as the Garden's programs have grown through the years, so have the financial needs.

Endowed positions enable the Garden to commit to long-term projects, assured that the positions required to carry out its mission are permanently supported. The Garden's continued success will be based on a superb staff and the excellence of the experts who lead it: a world class team with rare skills, the best education, and a strong commitment to the Garden's mission. This January, the Garden announced the addition of two endowed positions: the Alice H. Brown Curator of Economic Botany and the Anne L. Lehmann Curator of North American Botany.

Jan Salick, Ph.D., Alice H. Brown Curator of Economic Botany (above left)
As a result of generous gifts from the Suri M. Sehgal Foundation and the Danforth Foundation, Dr. Jan Salick has been named the Alice H. Brown Curator of Economic Botany. The name honors the widow of William L. Brown, a graduate of the Garden and Washington University, who went on to become Chairman and CEO at Pioneer-Hi-Bred International, Inc. The Garden's William L. Brown Center is named in his honor. Dr. Salick works on ecological ethnobotany, conservation, and sustainability of Tibetan plant genetic resources in southwestern China. She is a past President of the Society for Economic Botany and the current Darrell Posey Fellow of Ethnobotany at the University of Oxford in England.

James L. Zarucchi, Ph.D., Anne L. Lehmann Curator of North American Botany (above right)
Established in 1992, the Anne L. Lehmann Curator of North American Botany honors the wife of John S. Lehmann, president of the Garden's Board of Trustees from 1953 to 1958. An emeritus trustee in her own right and recipient of the Henry Shaw medal, Anne Lehmann founded the Members' Board and the Tower Grove House Historical Committee. Dr. Zarucchi directs the Garden's participation in an ambitious, bi-national project to produce the *Flora of North America*, the first comprehensive description of all the estimated 21,000 plants that grow spontaneously in the United States, Canada, and Greenland. Zarucchi's research interests include Apocynaceae, the dogbane family; Fabaceae, the bean family; and floristics of northwestern South America, China, and North America.

Current Endowed Positions

Steven Cline, Ph.D., William T. Kemper Manager of the Kemper Center for Home Gardening
Thomas B. Croat, Ph.D., P. A. Schulze Curator of Botany
Gerrit Davidse, Ph.D., John S. Lehmann Curator of Grasses
Peter Goldblatt, Ph.D., B. A. Krukoff Curator of African Botany
June C. Hutson, Aurelia Schlapp Curator of Perennial Plants
James Miller, Ph.D., William L. Brown Curator of Economic Botany
Jan Salick, Ph.D., Alice H. Brown Curator of Economic Botany
W. D. Stevens, Ph.D., B. A. Krukoff Curator of Central American Botany
James L. Zarucchi, Ph.D., Anne L. Lehmann Curator of North American Botany

Positions Seeking Endowment

Horticulture
Curator of Aquatic Plants
Curator of the Chinese Garden
Curator of the Climatron
Curator of the Japanese Garden
Curator of Orchids
Curator of Roses

Research and Management
Vice President of Horticulture
Vice President of Research
Director of the Shaw Nature Reserve
Garden Librarian

Botany
Curator of African Bryophytes
Curator of Andean Botany
Curator of Bolivian Botany
Curator of Central Asian Botany
Curator of Chinese Botany
Curator of Composites
Curator of Costa Rican Botany
Curator of Legumes
Curator of Madagascar Botany
Curator of Mesoamerican Bryophytes
Curator of Tropical African Botany
Curator of Vietnamese Botany

Glass in the Garden

On January 10–12, workers from Chihuly Studios installed a breathtaking 20-foot blown glass sculpture above the entrance to the Missouri Botanical Garden's Ridgway Center, a dramatic preview to *Glass in the Garden*, a new exhibition by renowned artist Dale Chihuly that opens April 30.

Planning began six months ago with tests by structural engineers and retrofitting of the Ridgway Center to support and light the monumental chandelier. The custom-fabricated stainless steel substrate alone weighs almost 300 pounds. Mounted fully with the dramatic whorls and spirals of Chihuly's art, the completed sculpture weighs 2,300 pounds.

Entitled "Missouri Botanical Garden Blue Chandelier, 2006," the sculpture is formed by 928 individual glass spirals and gooseneck shapes in shades of cobalt, icy turquoise, and clear. It measures six feet wide by over 20 feet long and was assembled on location by a team of master installers, who will return in April to mount the rest of the exhibition.

Beginning April 30, ticket holders will be able to walk through the lush, warm Climatron conservatory rain forest and discover breathtaking views of colorful sculptures at every turn amid the tropical cycads, orchids, banyan, and palms. Groupings of brightly colored, bold shapes will float upon the central axis reflecting pools and nestle in flower gardens.

Chihuly's other major installations have included "Chihuly Over Venice," "Chihuly Bridge of Glass," located in his hometown of Tacoma, Washington, and the Bellagio Hotel lobby ceiling in Las Vegas, Nevada. His creations are found in more than 200 museums worldwide.

Glass in the Garden will bring approximately 30 unique installations, valued at over $10 million, custom-designed for the Missouri Botanical Garden. The exhibition runs from April 30 to October 31, and is widely expected to be the premiere cultural attraction of the St. Louis area in 2006. Large crowds and frequent sell-out capacity are expected, but as a Garden member, you will receive special privileges.

Glass in the Garden is presented by Emerson, with additional support by the Raymond and Cynthia Peters Charitable Fund; R. Duane Reed Gallery; Citigroup; and Chase Park Plaza Hotel.

Chihuly Nights *every Thursday – 6 to 10 p.m.*

Dramatically lit views of the exhibition in the glow of evening offer visitors a unique after-hours opportunity to enjoy the beauty of the Garden and *Glass in the Garden*. The experience is enhanced by music and live glass-blowing demonstrations provided by Third Degree Glass Factory. Enjoy cocktails and light fare available for purchase at the Kaleidoscope Café at Spink Pavilion beside the reflecting pools. Admission to Chihuly Nights is $15, but only $10 for members.

Ticketing & Members' Privileges

Garden members continue to enjoy unlimited free Garden admission; however, all Garden visitors, including members, will now be required to have a ticket to enter. To provide expedited entry to the Garden for members during their regular visits, special **Members Only Ticket Kiosks** are stationed at the Ticket Counter. Just scan your membership card to print your ticket.

For the Chihuly exhibition *Glass in the Garden*, all Garden visitors, including members, will be required to have a **timed ticket** for admission to the Climatron. Again, this means that members will be required to present a valid membership card and photo I.D. at point of entry to the Garden. However, members are strongly encouraged to purchase tickets in advance, as capacity in the Climatron is limited for this guaranteed blockbuster.

Garden members will have the opportunity to **purchase exhibition tickets online** (90 day maximum advance purchase) beginning March 1, one month prior to public sale. Visit the Garden's website, www.mobot.org and click on "tickets." Once at the ticketing site, enter the password: henryshaw to receive your members' discount. Again, please be prepared to present your membership card and photo I.D. at the Garden. Exhibition tickets are non-refundable and non-exchangeable, valid rain or shine.

Upper level members enjoy even more privileges, including complimentary admission with Bonus Bloom passes. Upgrade today and reap the rewards!

Glass in the Garden:
Chihuly at the Missouri Botanical Garden

Presented by Emerson

April 30 to October 31, 2006

8:30 a.m. to 5:30 p.m.

Admission to the Garden and the Chihuly exhibition:

General public, Friday through Sunday: $16

General public, Monday through Thursday: $14

General Garden admission is free for members.

Members and members' children Chihuly exhibition: $3 any time

Don't forget! Members free first Tuesday mornings, 9 to 11:30 a.m.

Jeff Gerber, Joshua Legget, and Michael Parker of Chihuly Studios install "Missouri Botanical Garden Blue Chandelier, 2006" in the Ridgway Center this January.

A Touch of Glass Gala

Be the first to see the stunning exhibition of colorful glass sculptures custom designed for the Garden by artist Dale Chihuly at this elegant black tie evening in the Chihuly Pavilion. Saturday, April 29. Tickets $500 per person. Table sponsorships also available. Reservations required. For information, call (314) 577-9495.

Special Events for Members Only

Members' Event: The Beauty of Chihuly

Duane Reed, owner of the R. Duane Reed Gallery, exclusive source for the work of Dale Chihuly in the St. Louis region, presents a general overview of Dale Chihuly and his work as exhibited in botanical settings around the world. Friday, March 31, 11 a.m., Ridgway Center. Seating is limited.

Members' Event: Glass at the Garden

Just a few days before this exciting exhibition opens on April 30, be among the first to get a "virtual" sneak peek, as Jennifer Lewis of Chihuly Studios, Tacoma, Washington, presents Dale Chihuly's inspirations, recent projects, and career overview. Monday, April 24, 11 a.m., Ridgway Center. Seating is limited.

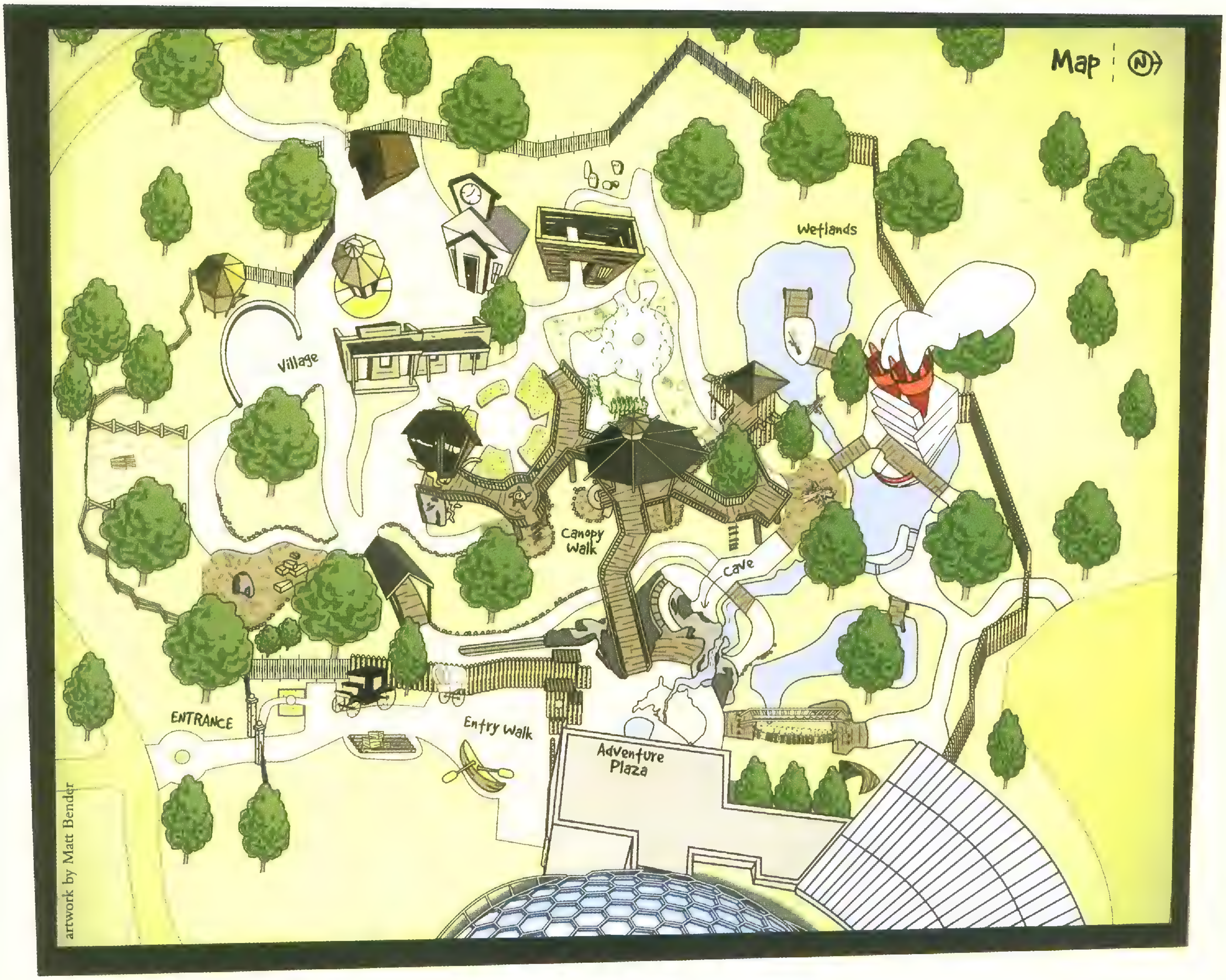
Members' Free First Tuesday Mornings

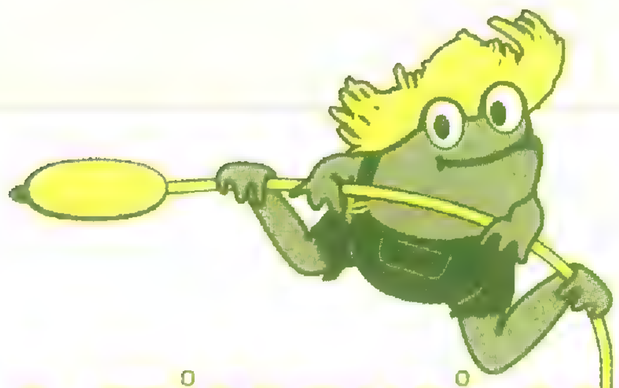
Garden Members receive free admission for themselves plus one guest to the Chihuly exhibition in the Climatron on the first Tuesday of every month from 9 to 11:30 a.m.

Volunteers Needed

Be a part of a very special exhibition! From April 30 to October 31, volunteers are needed to serve as "Chihuly hosts," trained to share knowledge about the art installation and the glass-blowing process, enriching the experience for adults and children. Shifts are available seven days a week, morning or afternoon, on days, evenings, and weekends. A four-hour commitment is requested. Volunteers will be assigned both inside and outdoors, but your preference will be considered. Call (314) 577-5187 for details.

photo by Justin Visnesky





a missouri adventure

the doris I. schnuck children's garden

General Hours

April 2006: Open weekends only, 9 a.m. to 5 p.m.
May–October: Open daily, 9 a.m. to 5 p.m.
November–March: Open weekends (weather permitting).
Closed December–February.

Admission

Children (including members' children) ages 3–12: $3
Children ages 2 and under: free
Adults: free (in addition to general Garden admission)

All children must be accompanied by an adult.

Become an adventurer, botanist, discoverer, or settler in mid-19th century Missouri. Venture into a limestone cave, glide down the spelunker's slide, explore the wetlands, step aboard a riverfront steamboat, climb high on a canopy walk to the tree house, or visit a Midwestern village. Families will discover education and fun rolled up in one when the Doris I. Schnuck Children's Garden: A Missouri Adventure opens this April at the Missouri Botanical Garden.

"For many people, the understanding of science and scientific process comes from individual experience," says Garden President Dr. Peter H. Raven. "Through the generosity of the Schnuck family, this garden will provide a stimulating environment for the early experience of childhood wonder at the natural world."

The children of the Donald Schnuck family provided the lead gift to name the Children's Garden in honor of their mother. "Our family is delighted to be able to honor our mother with this lasting tribute," says Scott Schnuck, Chairman of the Garden's Board of Trustees. "The Children's Garden will raise awareness of the importance of plants and ecology, while providing a fun, new attraction for families in St. Louis."

Sneak Peeks

During sneak peek weekends in April, enjoy enhanced grand opening activities from 10 a.m. to 3 p.m. Meet the new frog mascot, enjoy music, purchase a souvenir photo button, and record your visit for history in the video guest book. The St. Louis County Library will present a program each Saturday at 12:30 p.m.

Take the Tour

The new nearly two-acre garden transports young visitors to Missouri in the 1800s, where plants and nature take center stage. Visitors enter the new garden just west of the Climatron conservatory and the adventure begins!

- **Adventurer's Path** begins with a glide down Spelunker's Slide to enter a rocky limestone cave where stalactites and stalagmites grow. Fossils, artifacts, and petroglyphs are found inside the cool, dimly lit cavern where children can draw chalk pictures and symbols on the walls. They will learn how plants and animals adapt to cave life, how caves have been used for shelter and mining, and discover stones and minerals commonly found in Missouri.

- Along the **Botanist's Path**, a rustic boardwalk leads to a climb through the treetops of mature Osage orange trees planted by Henry Shaw over 100 years ago. At the center, a tree trunk pavilion offers an elevated view of the entire Children's Garden.

- A fabricated tree allows safe ascent to a tree house where children can uncover plant specimens, toys, and other hidden treasures. At Stump Station, moveable tree rings demonstrate a tree's life cycle. On the ground, dangling roots provide a glimpse of a tree's underground life.

- Birds, bees, and butterflies are attracted to the colorful flowers that grow in the petal-shaped Pollination Garden. Children can crawl inside a giant beehive to investigate its catacombs or follow the footprints of a "bee dance."

- A hidden door among the hedges gains entry to a secret Victorian garden, where one can make music on sound sculptures or imagine young Henry Shaw's childhood in Sheffield, England.

- The **Settler's Path** meanders down a country road and under a covered bridge, past a challenging climbing rock and the splashing water pumps of an old water tower. At the Tot Lot, little ones can "plant" veggies in the sand. The path leads to a mid-19th century Midwestern prairie village, where food, medicine, and merchandise in the general store display common examples of the plant-people connection. Displays in the surveyor's office demonstrate how settlement alters the natural landscape and plants serve as eco-indicators of soil quality. In the jailhouse, invasive plants that arrived with the settlers are "locked up" in cells and identified on "most wanted" posters. Outside, gravestones mark a few endangered Missouri plants.

- The **Discoverer's Path** crosses one of two rope bridges leading to an Osage Camp where explorers left their journals. Learn more about life among the Osage, including how these early settlers interacted with the plants and animals they needed for survival. Wander among native wetland plants and visit the pond area. On the north shore of the pond, the Discovery Platform provides access to the water.

Happy Birthday!

Be among the first to celebrate your birthday in the new Children's Garden! Parties include a 90-minute reservation of the Town Hall; goodie bag, snack, and drink for each child; activity placemat featuring a self-guided cave or wetlands adventure; invitiations; and a souvenir button for the birthday child. There is a 24-child maximum; $18 per child (includes Children's Garden admission). Available Fridays through Sundays, June through October. Call (314) 577-9588 at least 3 weeks in advance.

Volunteers Needed

HELP WANTED: *Seeking one part-time frog mascot. Must be friendly and outgoing while remaining speechless; of medium build, between five-foot-two and five-foot-eight inches tall; able to work a five-hour shift.* That's just one job description for volunteer help needed during grand opening weekends of the new Doris I. Schnuck Children's Garden: A Missouri Adventure every Saturday and Sunday in April. Assignments include greeting visitors, making souvenir buttons, and helping children record their experiences for a video guest book. Children's Garden volunteers will be scheduled outdoors on weekends in April from 10 a.m. to 3 p.m. Split shifts are available from 10 a.m. to 1 p.m. or 1 to 3 p.m. Volunteers will receive a free Children's Garden t-shirt. Call (314) 577-5187.

Meet the Children's Garden Manager

Dr. Katie Belisle-Iffrig has been named manager of the Doris I. Schnuck Children's Garden: A Missouri Adventure, to oversee the garden opening and development of its educational opportunities. Belisle-Iffrig has been involved in Garden programs for 13 years in various capacities, including the implementation of youth programs, coordination of the plastic pot recycling, and adult education instruction. She has a doctorate in Outdoor Recreation with an emphasis on environmental education from Indiana University. Belisle-Iffrig's "passion for the environment, experience with youth and strong commitment to education will be a great blend as she leads our effort to create an exciting and rewarding experience for visitors to the Children's Garden," says Robert Herleth, Executive Vice President.

what to do in your garden now...

clip and save

march

all month

- ❑ Fertilize vegetables while preparing the soil for planting.
- ❑ Clean up beds by removing all weeds and dead foliage.
- ❑ Dormant mail-order plants should be unwrapped immediately. Keep the roots from drying out, store in a cool protected spot, and plant as soon as conditions allow.
- ❑ Trees, shrubs, and perennials may be planted as soon as they become available at local nurseries.
- ❑ Gradually remove mulch from strawberries as the weather warms.
- ❑ Repot rootbound houseplants to containers 2 inches larger in diameter than their current pot. Check for insect activity; control as needed. Prune leggy plants.
- ❑ Mow lawns low to remove old growth before new begins.

week 1

- ❑ Delay planting vegetables if the soil is too wet. When a ball of soil crumbles easily after being squeezed together in your hand, it is dry enough to be safely worked.
- ❑ Asparagus and rhubarb roots should be planted as soon as the ground can be worked.
- ❑ Seeds of hardy annuals such as larkspur, bachelor's buttons, and california poppies should be directly sown in the garden now.
- ❑ Heavy pruning of trees should be complete before growth occurs.
- ❑ Prune grapes. Tie vines to the trellis before the buds swell to prevent injury and crop loss.

week 2

- ❑ Plant peas, lettuce, radishes, kohlrabi, mustard greens, collards, turnips, potatoes, spinach, and onions (seeds and sets) outdoors.
- ❑ Summer and fall blooming perennials should be divided.

week 3

- ❑ Visit the SpringDig for a free soil test (see page 9 for details).
- ❑ Plant beets, carrots, parsley, and parsnip seeds outdoors. Set out broccoli, cabbage, brussels sprouts, chinese cabbage, and cauliflower transplants into the garden.
- ❑ Apply sulfur to the soils around acid-loving plants such as azaleas, rhododendrons, hollies, and dogwoods. Apply a balanced fertilizer to perennial beds when new growth appears.
- ❑ Plant spring bedding plants outdoors now.
- ❑ Cut ornamental grasses to the ground as new growth begins.
- ❑ Apply dormant oil sprays to your fruits now. Choose a dry, warm weather day.
- ❑ Apply broadleaf herbicides now for control of cool-season weeds. These must not be applied to areas that will be seeded soon.

week 4

- ❑ Start seeds of tomatoes, peppers, and eggplants indoors.
- ❑ Gradually start to pull back mulch from rose bushes.
- ❑ Prune peaches and nectarines just before they bloom. Mulch bramble fruits for weed control.
- ❑ Thin spots and bare patches in the lawn can be overseeded now.

april

all month

- ❑ Start mowing cool season grasses.

week 1

- ❑ Start cucumber, cantaloupe, summer squash, and watermelon seeds indoors. Finish sowing seeds of all cool-season vegetables not yet planted outdoors.
- ❑ Plants started indoors should be hardened off before being transplanted.
- ❑ Asparagus and rhubarb harvests begin.
- ❑ Winter mulches should be removed from roses. Complete pruning promptly. Remove only dead wood from climbers at this time. Cultivate lightly, working in some compost or other organic matter.
- ❑ Shrubs and trees best planted or transplanted in spring, rather than fall include butterfly bush, dogwood, Rose of Sharon, Black gum (Nyssa), vitex, red bud, magnolia, tulip poplar, birch, ginkgo, hawthorn, and most oaks.
- ❑ Plant bareroot or potted fruits as soon as the soil can be worked. Remove tree wraps from fruit trees.
- ❑ Mount a rain gauge near the garden to track precipitation. Most gardens need about 1 inch of rain per week between April and September.

week 2

- ❑ Finish transplanting broccoli, brussels sprouts, cabbage, and cauliflower plants into the garden.
- ❑ Sow seeds of hardshell gourds indoors. Soak seeds overnight before planting.
- ❑ Thin out crowded seedlings from early plantings of cool-season crops such as beets, carrots, lettuce, onions, and radish.
- ❑ Examine shrubs for winter injury. Prune all dead and weakened wood.
- ❑ When crabapples are in bloom, hardy annuals may be transplanted outdoors.
- ❑ Fertilize established roses once new growth is 2 inches long.
- ❑ Do not prune boxwoods before April 15.
- ❑ Destroy or prune off webs of eastern tent caterpillars. Protect bees and other pollinating insects.
- ❑ Aerate turf if thatch is heavy or if soil is compacted. Topdress low spots and finish overseeding thin or bare patches. Apply crabgrass preventers before April 15. Do not apply to areas that will be seeded.

week 3

- ❑ Try an early sowing of warm-season crops such as green beans, summer squash, sweet corn, New Zealand spinach, and cucumbers. Flower stalks should be removed from rhubarb plants, if they develop.

week 4

- ❑ Begin planting lima beans, cucumbers, melons, okra, and watermelons. Begin setting out transplants of tomatoes, eggplants, peppers, and sweet potatoes.
- ❑ Easter lilies past blooming can be planted outdoors. Mulch well.
- ❑ Shear evergreen and deciduous hedges.
- ❑ Begin planting out summer bulbs such as caladiums, gladiolus, and acidanthera.
- ❑ Prune spring-flowering ornamentals after they finish blooming.

For additional information on plant care and gardening:

- *visit the Kemper Center for Home Gardening*
- *call the Horticultural Answer Service, Monday through Saturday, 9 a.m. to noon, at (314) 577-5143.*
- *check out the Gardening Help section at www.mobot.org*

photo by Mary Ann Kressig

Spring Classes for All Types

Whether you are a beginner or advanced gardener, the Missouri Botanical Garden offers a variety of classes to grow your green thumb! Registration is now open for spring classes highlighting specialty gardens, plant care, landscaping, indoor gardening, and more.

- Brush up on gardening practices from selection and planting to pruning and maintenance. Learn **What Every Gardener Should Know** in a five-session interactive class that incorporates all the fundamentals of home gardening.
- Just how much should you water your lawn? How can you handle pests and control disease? **Spring Lawn Care** will feature techniques to achieve the best lawn on the block.
- If flowers appeal more to your interest, learn about **Selecting, Planting and Pruning Roses** from the master rosarian of St. Louis, Diane Brueckman.

In addition to gardening topics, the Garden offers a wide variety of adult education classes including cooking, art, and botanical crafts. Offered March through June, classes range from $25 to $60 for single-session classes and from $125 to $130 for multiple-session classes. Most sessions are held at the Garden's main campus, but other classes are available at Shaw Nature Reserve in Gray Summit, MO and at Lewis and Clark Community College in Edwardsville, IL.

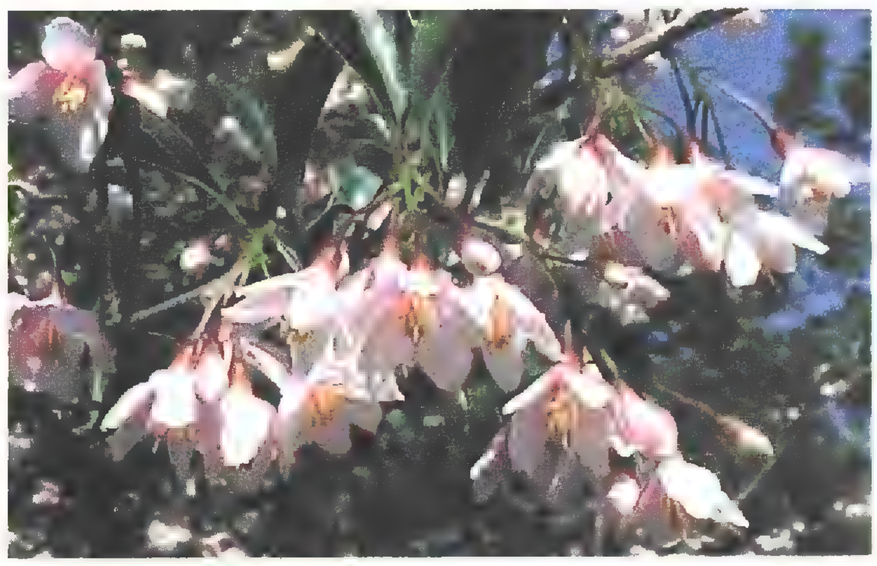
Classes fill up quickly, but Garden **members** get the first opportunity with early enrollment. Members also receive discounts on all classes of up to 20% off. Course catalogs were mailed in February. If yours has gone astray, check out the classes online at the Garden's website: www.mobot.org/gardeninghelp, or call (314) 577-9441.

SpringDig 2006: Green Thumb Basics and Expert Advice

Saturday, March 18, 9:30 a.m. to 3:30 p.m.

The Garden's third annual SpringDig home gardening event will have a Southern accent this year. Two nationally known Mississippi gardeners, author Felder Rushing and HGTV's "Dr. Dirt" will share their passion for gardening with a down-home approach in a talk co-sponsored by the Flora Conservancy of Forest Park.

SpringDig offers a full day of home gardening advice—from beginner to expert—and inspiration and resources from some of St. Louis's greenest thumbs, the staff experts and horticulturists from the Garden's Kemper Center for Home Gardening. Topics include soil basics, growing a perfect lawn, top performing perennials, Plants of Merit, attracting hummingbirds, and gardening resources on the Web. Bring a soil sample from your yard for a free, do-it-yourself test. Cost to attend the program is $40 ($35 for Garden members). Auditorium seating is first come, first served. Advance registration is required. To register or for more information, call (314) 577-9441.



www.mobot.org/gardeninghelp/plantfinder

Featured Plant of Merit

Styrax japonicus 'Pink Chimes'

Best grown in medium-wet, acidic, organically rich, well-drained soil in full sun to part shade, this Japanese snowbell cultivar is a broad-topped small tree (10–25 feet tall) with wide, weeping horizontal branches. Features small hanging clusters of bell-shaped, mildly fragrant, pale pink flowers in May-June (somewhat late for trees). Gray bark fissures on older trees reveal an attractive orange inner layer.

Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org

photo by Erin Whitson

Botany of a Spring Soup

Variety is the spice of life, so twice a year, chef Lynn Heerman of Sassafras at the Missouri Botanical Garden, devises a new seasonal menu. This year's spring/summer menu goes into effect soon, and he has graciously offered to share his recipe for a delicious Carrot and Fennel Soup. Made with simple ingredients, this soup is also quite healthful, as explained by Dr. Wendy Applequist, a specialist in medicinal plants.

Carrot and Fennel Soup *(serves 4)*
by Lynn Heerman

4 Tbsp. butter
1 medium yellow onion. chopped
1 medium fennel bulb, chopped
2 celery sticks, chopped
1 lb. carrots, grated
1 Tbsp. cumin
½ lb. new potatoes, diced
5 cups chicken stock
½ cup heavy cream
salt and pepper
chopped fresh parsley to garnish

1. Melt butter in a large pan and add the onions, fennel, celery, carrots, and cumin. Saute till the onions are translucent.
2. Add potatoes and chicken stock and boil till potatoes are soft.
3. Add cream and puree the mixture with either a hand-held "immersion" blender or by transferring small batches to a food processor. Season to taste with the salt and pepper.
4. Serve in bowls, garnished with parsley and a touch of cream.

Botany *by Dr. Wendy Applequist*

ONIONS (*Allium cepa*) have been cultivated for at least 5,000 years and, like the related garlic, contain antibacterial and antiviral compounds. They are possibly of Middle Eastern origin and were an important part of the diet for ancient Egyptians, who saw the multilayered bulb as a symbol of eternity and placed onions in or around the mummified bodies of the dead.

The leaves, stems, and bulbs of FENNEL (*Foeniculum vulgare*) are all edible. The field of Marathon, on which the famous Greek battle was fought, was named after the fennel (in Greek, *marathron*) that grew there. Fennel is believed by some to aid in weight loss, although probably not as much as running marathons would!

Scientific data support the traditional Chinese and Middle Eastern use of CELERY (*Apium graveolens*) to lower blood pressure. It not only contains compounds that relax blood vessels, but has a diuretic effect and an excellent ratio of potassium to sodium.

The first cultivated CARROTS (*Daucus carota)*, which probably came from Afghanistan, were white (like wild carrots) or purple; later carrot varieties were just about any color except orange. Orange carrots were first bred in Renaissance Holland to honor the House of Orange; old-fashioned purple carrots are rich in potentially beneficial anthocyanin pigments and so are probably more nutritious.

Like several other strongly flavored spices, CUMIN (*Cuminum cyminum*) has high amounts of beneficial phenolic compounds that contribute to antioxidant, antibacterial, and antifungal activities.

POTATOES (*Solanum tuberosum*), domesticated from plants native to Bolivia and Peru, are virtually an ideal food, nutrient-dense and providing more balanced nutrition than any other staple crop. Some populations have survived on a diet of almost nothing but potatoes; the loss of the Irish potato crop to fungal disease caused a devastating famine and the first great wave of Irish emigration to America in the 1840s.

PEPPER (*Piper nigrum*) is the most widely consumed spice in the world and it has an hypoglycemic effect from the alkaloid piperine. A native of India, pepper was once literally worth its weight in gold as the most important article in the Roman and medieval European spice trade. Pepper has antibacterial activity and stimulates digestion (for which it is used in Indian Ayurvedic medicine). In an era that lacked refrigeration, it not only disguised the flavor of poorly preserved meat, but made eating it at least a little safer.

PARSLEY (*Petroselenium crispum*) is one of the richest vegetable sources of vitamin C. Parsley has a widespread use in folk medical traditions; most notably, the root is used as a diuretic, an effect confirmed by animal studies. Parsley is commonly employed during the Jewish holiday of Pesach or Passover as a green vegetable symbolizing rebirth and spring.

garden at large...

photo by Jim Hu
courtesy Missou

For the Birds!

Responding to concerns that quail and grassland bird populations are in decline, staff at Shaw Nature Reserve are working with the Missouri Department of Conservation to develop and interpret a quail habitat management demonstration. The new 50–60 acre area will be adjacent to the Whitmire Wildflower Garden and Bascom House. "There is a need for private landowners to see first-hand how these populations can be encouraged," says the MDC's private lands specialist Scot Mikols. The SNR demonstration garden will provide not only an example, but necessary interpretation and instruction on appropriate quail management practices for Missouri. Planning is underway, but the ground breaking won't be until next year. In the meantime, bird lovers may wish to enroll in the March class on backyard quail at Shaw Nature Reserve's Native Plant School.

The Native Plant School is a year-round series of classes covering various aspects of native home landscaping. The three-hour sessions are led by SNR's native plant specialist Scott Woodbury and guest experts from around the state. Each three-hour class is $12 ($8 for Garden members), payable at the Visitor Center upon arrival. Registration is required; please call (636) 451-3512.

Managing Quail in Your "Back Forty"
Thursday, March 9, 1 to 4 p.m.

New Additions to the Wetland

Two ponds, partially surrounded by forest, near Brush Creek Trail between the creek and the prairie are the most recent additions to Shaw Nature Reserve wetlands. These were built to mitigate damage done to wet woodlands during construction of the nearby Brush Creek Sewer Line. Initially rather open, these wetlands will eventually be shaded by a forest of moisture-loving tree species such as swamp white oaks, bur oaks, pin oaks, river birch, honeylocust, ash, and sycamore. Such wetlands provide breeding habitat for wood ducks, hooded mergansers, ebony jewelwing damselflies, and many less-known organisms. Not only will these seasonal pools provide additional acreage and diversity of wetland habitat at SNR, but the sewer line itself (lying about one half mile to the north) will relieve the pollution pressure on Brush Creek from failing septic tanks and leach fields upstream. Also, bare ground in the portion of the sewer line easement that traverses SNR is being converted to diverse native grassland.

SNR Spring Wildflower Sale

Saturday, May 13, 9 a.m. to 4 p.m.

Don't miss the widest selection of native plants in St. Louis area, including hundreds of varieties of wildflowers, ferns, trees, and shrubs for home landscaping. Garden members' preview sale is Friday, May 12, from 4 to 7:30 p.m.

New Website

The Shaw Nature Reserve website has been redesigned and new content is being added daily, including updates on various ecosystems, restoration projects, events and classes, and use of the Dana Brown Overnight Education Center. Check it out at www.shawnature.org.

SHAW NATURE RESERVE

Hwy. 100 & 44 (exit 253)
Gray Summit, MO 63039
phone: (636) 451-3512
www.shawnature.org

Founded in 1925, the Shaw Nature Reserve encompasses 2,400 acres of tall-grass prairie, forests and glades, woodlands and wetlands, and 14 miles of hiking trails.

garden at large...

(continued)

photo by Mark Deering

Red Rump Tarantula, *Brachypelma vagans*

Pulaski Bank Arachnid Wall Opens

A permanent addition to the Sophia M. Sachs Butterfly House, the Pulaski Bank Arachnid Wall is now creeping and crawling with new 8-legged spiders, scorpions, and friends.

The 7-foot U-shaped display surrounds the intrepid visitor with many arachnid habitats presented at eye level. Kids are invited to get safely "face to face" with pink-toe tarantulas, black widows, brown recluses, and a giant whipscorpion, also known as a vinegaroon, among other animals. There's even a fluorescent (and hairy!) desert scorpion that glows under ultraviolet light!

"Arachnids are beneficial predators within the ecosystem," says Joe Norton, director of the Butterfly House. "This exhibit will allow guests of all ages to see these fascinating creatures up close."

March 7, 9 a.m. Please join us for the dedication ceremony of the Pulaski Bank Arachnid Wall.

Butterfly Conservation

Founded in response to the alarming recent decline in butterfly populations, the Butterfly Conservation Initiative (BFCI), a coalition of nearly 60 American Zoo and Aquarium Association (AZA)-accredited facilities will relocate to the Missouri Botanical Garden from Maryland in spring 2006. The Garden's Sophia M. Sachs Butterfly House became the first AZA-accredited butterfly house in the nation in 2004.

"Having the BFCI located at the Garden is a natural fit, given the co-dependency of butterflies and plants within a healthy ecosystem," says Joe Norton, director of the Butterfly House. "We are excited to bring the BFCI to the Garden, and know that the initiative will complement both the Butterfly House and the Garden in reaching conservation objectives."

Butterfly House

15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

More than a thousand live tropical butterflies are in free flight inside the glass conservatory at the Sophia M. Sachs Butterfly House. Visit native and migrating species in the outdoor gardens of the Butterfly Garden. Watch a butterfly emerge from a chrysalis right before your eyes. Whatever your age, you'll enjoy a trip to the Butterfly House where wonder takes flight!

Classes & Events

Butterfly Gardening
Saturday, March 11
Attract butterflies to your backyard. Ages 8 and up. Call (636) 530- 0076 for pricing.

Buzz: Is Anybody Out There? The Biodiversity of Insects
Saturday, April 8, 10 a.m.
Explore the diversity of insects followed by first-hand observation (weather permitting). Ages 8–12. $13 (members $9). Call (636) 530-0076 for pricing.

Earth Day
Saturday, April 22, 11 a.m. to 2 p.m.
Create fun crafts with recycled goods. Ages 3 to 10. Free with regular admission.

Sophia M. Sachs Butterfly House tributes

For information on making a gift to the Butterfly House Tribute Fund, please call (314) 577-0297.

Mrs. Sandra Bullock
Mrs. Jacqueline Leach

Mrs. Betty Manlin
Ms. Jackie Juras

pavers

Butterfly House pavers are a great way to recognize graduations, weddings, birthdays, holidays, and memorials. For information, call Fay Orr at (314) 577-0874.

Lois Jeanne Cromwell
Evan, Mary, Sean and Emma

Nor and Mil Glaser
Barb, Jon, Gayle, Cap, Linda, Larry, Neil, Scott, Amy, Kyle, Kelsy, Katie, Dan, Kevin, and Brian

Kelsey and Brody Weinrich
Daniel Weinrich

Bob, Bonnie, Jef, Jill, and Jon Ridgway
Otto and Ardeen Tucker

Mary L. Hale
Margaret Ferguson

Mason C. Dale
Grandma, Grandpa, Aunt Linda, Uncle Rick, Jen, Tina, Aunt Kathy, Uncle Mike, Jim, Chris, and Greg

Susan Egizii-Gower
Jeff Gower

Elias Quinn Lamoureux
Grandpa Harvey and Grandma Judy

Tributes and Pavers donated to the Butterfly House in November and December 2005.

Make Every Day Earth Day at MBG

Garden visitors can readily see hard work and skill being applied each day to produce such beautiful planting displays. Garden members can be proud to know that the same kind of dedication is making the Garden "greener" behind the scenes.

Staff members from every working area contribute to the Garden's Green Team, joining forces to improve efficiency in our use of human, natural and capital resources. These efforts are coordinated by EarthWays Center, our environmental education specialists.

Recent physical improvements made in the Ridgway Center posed some large-scale recycling challenges that our Green Team champions were ready to meet. As the Maintenance crew replaced ceiling tiles throughout the building, they collaborated with Ceiling Supply, Inc. to recycle over 34,000 square feet of this material, which will be made into new Armstrong brand acoustic tile. And when the Housekeeping and Audio-Visual crews upgraded Shoenberg Auditorium with new seats, they were just not willing to send the old seating units to a landfill. Our Green Team connected with a creative local source to reuse all 740 seat backs and cushions. Look for those blue seats to reappear sometime soon somewhere in the City Museum!

"Much of what gets accomplished through these kinds of Green Team efforts takes place quietly, far from the flowering spotlight," says EarthWays Center's Jean Ponzi. "People working throughout the Garden, staff and volunteers, are continually seeking ways to use resources more effectively."

photo by Dale Dufer

Camp EarthWays offers young builders the chance to design their Green Dream House.

Camp EarthWays 2006— Young Green Builders

This summer kids who care about the planet can put on a Green Hard Hat and design their own sustainable model home! EarthWays Center invites girls and boys entering grades 6-8 to explore green building principles for home design and construction at Camp EarthWays, June 26-30. Full-day sessions (9 a.m. to 3 p.m.) will include field visits to green building sites around St. Louis and interactions with local green building professionals. Campers will present and display their model homes in the EarthWays Center. Camp fee is $175 ($150 for Garden members). For more information and to register call (314) 577-0220.

photo by Kevin Mattingly

The Garden's conservation-minded maintenance staff recycled over 9 tons of ceiling tiles, plus 3 tons of steel tile supports, during Ridgway Center renovations.

EARTH CENTER WAYS

3617 Grandel Square
St. Louis, MO 63108
phone (314) 577-0220
fax (314) 577-0298
www.earthwayscenter.org

Discover "green" options for home, school and workplace. Public tours offered first weekend of every month at 11 a.m., noon, 1 p.m., 2 p.m. Visit online for group tour bookings and other resources.

photo by John Manning

See South Africa

Tour "South Africa in the Springtime: Flora, Natural History, and Culture" with Drs. Peter and Patricia Raven this September 17–30. This tour for members and friends of the Garden begins in Johannesburg before exploring tropical beaches, century-old wineries, and the rich botanical legacy of a country which holds 10 percent of the world's known plant species. Explore Victoria Falls and Botswana on an optional extension. For more information, call (314) 577-9495.

Our Kind of Town!

Join the Tower Grove Auxiliary on a Chicago adventure June 27–29. Tour includes a visit to the Chicago Botanic Garden, the Field Museum's King Tut exhibit, and shopping on the Magnificent Mile. The nonrefundable $390 fee includes transportation, daily breakfast, a boxed lunch, a special Chicago dinner, and two nights lodging at Best Western's Grant Park Hotel on Michigan Avenue. Call (314) 577-5154 to reserve your seat!

corporate partners

Thank you to our new and renewing Corporate Partner Members
October 11, 2005–February 15, 2006

Principal Level
($25,000 and up)
Commerce Bank
Emerson
Schnuck Markets, Inc.

Shareholder Level
($10,000 to $24,999)
Anheuser-Busch Companies, Inc.
CBIZ Accounting, Tax & Advisory
Mayer Hoffman McCann P.C.
Sigma-Aldrich Corporation

Underwriter Level
($5,000 to $9,999)
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The City of O'Fallon, Illinois
Sachs Properties
SSE

LITTLE SHOP AROUND THE CORNER

ANTIQUES · HOME & GARDEN FURNISHINGS

Spring Cleaning?

Please consider donating those unwanted antiques, and vintage home and garden treasures to the Little Shop. It's one more tax-deductible way to support the Garden!

4474 Castleman at Shaw and Vandeventer)
(314) 577-0891 • Open Tues.-Sat., 10 a.m. to 4 p.m.
All proceeds benefit the Garden.

→for early childhood

spring programs

photo by Kevin Wolf

Spring into learning

The Garden's exciting early childhood education programs are blooming all over the place this spring. Enjoy the new season as you explore the Garden with your child or grandchild.

Strollerobics

A fun, low-impact workout for all fitness levels, Strollerobics is an eight-week course for parents and their children in strollers. Classes begin the week of March 20 and are offered Mondays, Tuesdays, Wednesdays, Thursdays, or Fridays from 9:30 to 10:30 a.m. The cost for an eight-class session is $55 per adult ($50 for Garden members). Advance registration is required, and class size is limited to 16 participants, so call (314) 577-0254 to register today.

Early Childhood

Designed for you and your preschool child or grandchild to explore plants and the natural world, each 90-minute class focuses on a different area of the garden and includes a walk, hands-on indoor activities, and a snack. Advance registration is required, so call (314) 577-9506.

Little Sprouts (ages 2–3) is offered on Mondays or Tuesdays for six weeks beginning April 17 or 18, from 10 to 11:30 a.m. Cost is $108 ($96 for Garden members).

Garden Buds (ages 4–5) is a series of three classes ($45/$38 for Garden members). Two times are available: Thursday mornings at 10 a.m. or Sunday afternoons at 1 p.m. Classes may also be taken individually ($16/$14 Garden members).

create a legacy

By leaving a bequest to the Garden, you create a legacy that will benefit generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Patty Arnold in the Development Office at (314) 577-5120 for further information and a complimentary brochure. Visit our website at www.mobot.org. Click on Ways to Give, then Planned Giving.

photo by Frank Synder

tributes

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding giving opportunities at the Garden, please call (314) 577-5118. You can also make a tribute gift online at our website, www.mobot.org.

November–December 2005

in honor of

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Mr. Hank Krenning
Friends at St. Louis Community College at Meramec

Tropical Oasis

photo by Justin Visnesky

Brighten up your spring entertaining with exotic feather placemats and colorful glassware from the Garden Gate Shop. Our all-weather Tiki planters and fun cookbooks will add a cool retro touch to any deck party.

Members' Sales
March 16, 28, and April 24
Members save 20% on everything at the Garden Gate Shop and the Little Shop Around the Corner.

Book Signings
March 18, noon to 2 p.m.
Michael Kuo will sign his book *Morels.*

March 25, noon to 2 p.m.
Paula Laverty will sign her book *Silk Stocking Mats: Hooked Mats of The Grenfell Mission.*

April 4, 4 p.m.
Tim Flannery will lecture and sign his new book *The Weather Makers.*

Trunk Shows

March 11–12	Yvette Woods
March 18–19	The Silver Cat
March 25–26	PB&J International
April 1–2	Pavla Rybar
April 8–9	Jewelry by Lacey
April 15–16	The Silver Cat

Garden Gate Shop

4344 Shaw Boulevard • (314) 577-5137
All proceeds benefit the Garden.

Hours: 9 a.m. to 5:30 p.m. daily.

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members' entry court

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact Fay Orr at (314) 577-0874 or visit our website, www.mobot.org.

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from December through January 2006.

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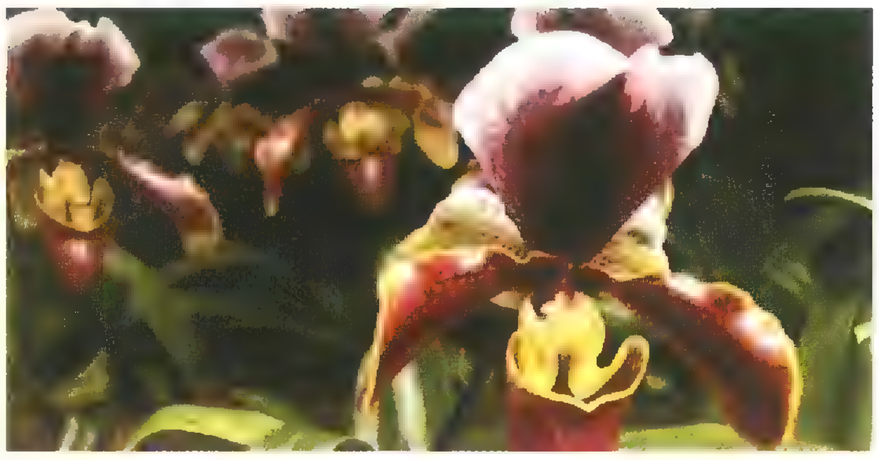

photo by Erin Whitson

Orchid Show Continues

Now through Sunday, March 12, 9 a.m. to 5 p.m., $3 (free for members)

Don't miss the last two weeks of Orchid Show 2006: Mr. Toad's Orchid Adventure. What visitors are saying: "The variety of species and the manner in which they were shown exceeded all expectations." "Absolutely lovely and magical, best show ever." Orchids are swapped out throughout the show, so return visitors are often rewarded with new colors and species.

From the Garden Live

Sundays, March 26 though May 7, noon, Ridgway Center

Now in its 19th season, Classic 99's "From the Garden, Live"℠ concert series features a wide range of performers from prominent St. Louis musical groups, including the Saint Louis Symphony Orchestra. Tickets are complimentary, but by request. Call (314) 725-0099 or visit the http://www.classic99.com/pgarden.htm.

Arbor Day

Friday, April 7, 9 a.m. to 5 p.m., Kemper Center for Home Gardening

To celebrate Missouri Arbor Day, the Garden will give away over 300 saplings, one per person. Species this year include the Bald Cypress (*Taxodium distichum*), Black gum (*Nyssa sylvatica*), and Swamp White Oak (*Quercus bicolor*). Master gardeners will be on hand to answer questions.

Easter Brunch

Sunday, April 16

Easter brunch at Sassafras, the Garden's café. Seatings at 10:30 a.m., noon, and 1:30 p.m. $24.95 per adult, $11.95 per child age 12 and under (tax not included). Includes admission to the Garden. Reservations required: (314) 577-9530. Light fare is also available from 10 a.m. to 3 p.m. at a cart outside the restaurant.

Herb Weekend

Friday-Sunday, April 21–23, 9 a.m. to 5 p.m., Ridgway Center

Fourth annual St. Louis Herb Society event features potted fresh herbs, including new and hard-to-find cultivars; the society's popular cookbook, cooking supplies, lotions and soaps. Herb Society members give guidance on planting, growing, and using herbs.

Earth Day

Saturday, April 22, 10 a.m. to 3 p.m., Garden grounds

Learn what you can do to participate in a healthy future for the planet from the environmental organizations of Earth Share of Missouri. MBG Horticulture staff will lead special, behind-the-scenes tours of the Garden greenhouses at 10 a.m., noon, and 2 p.m. World Tai-Chi Day will be observed this year as a part of Earth Day festivities. Enjoy outdoor demonstrations by several area practitioners. Bluegrass music by the Flying Mules can be heard on Spoehrer Plaza from 1 to 3 p.m. Earth Day activities also take place at the Garden's EarthWays Center in midtown and Butterfly House in Chesterfield.

Lectures

Spring in Bloom

Saturday, March 18, 10 a.m., Spink Pavilion

Garden exhibit designer Pat Scace demonstrates floral designs using lilies and other spring flowers.

The Weather Makers

Tuesday, April 4, 4 p.m., Ridgway Center

Internationally acclaimed scientist Tim Flannery discusses the impact of global warming and climate change.

The World of Iris for Rock Gardens

Friday, April 14, 4 p.m., Ridgway Center

Join Panayoti Kelaidis, director of Denver Botanic Gardens Outreach.

2006 John Dwyer Public Lecture

Friday, April 28, 4 p.m., Ridgway Center

"Chinese and North American Lady's Slipper Orchids: A New Look at the Sexy and Successful *Cypripedium*," by Drs. Retha Edens and Peter Bernhardt of Saint Louis University; Dr. Nan Vance, USDA Forestry Services.

just for members...

photo by Emily Snider

Eggstravaganza

Saturday, April 8, 10 a.m. to 12:30 p.m., Climatron lawn

Hop over to the Garden for our annual Eggstravaganza egg hunt! Meet the "Bunny" while the little ones (ages 2–10) hunt for eggs. Egg hunts begin promptly at 10:30, 11, 11:30 and noon, so be sure to allow enough time to walk to the Climatron lawn. Space is limited, so please reserve your spot by calling (314) 577-5154.

Members' Tour of the Butterfly House

Thursday, March 16, 9 a.m. to 4 p.m., Butterfly House

Enjoy free admission all day. At 11 a.m., horticulturist Phillip Stutz presents a slide show and walking tour of the Butterfly Garden focusing on native Missouri plants. The Madame Butterfly Gift Shop will offer a 20% discount to members.

Great Garden Contest with Becky Homan

Tuesday, March 28, 11 a.m., Ridgway Center

Take a virtual tour of past winners of the Great Garden Contest with Becky Homan, local garden writer and Great Garden Contest judge, who shares the very best entries from years past and offers tips for would-be contestants on impressing the judges.

See more membership events on page 9.

Missouri Botanical Garden Library
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calendar of events...

sunday	monday	tuesday	wednesday	thursday	friday	saturday
			01	02	03	04
				▪ through Mar. 12 Orchid Show. See p. 22.		
05	06	07	08	09	10	11
	blooming now. crocus, daffodils, hyacinth, forsythia, pussy willow, flowering cherry trees...fields of golden daffodils at SNR					
12	13	14	15	16	17	18
▪ Orchid Show ends. See p. 22. ▪ Garden Buds: Birds $☎		Dedication of Pulaski Bank Archnid Wall. 9 a.m. BH.	*Register now for spring classes and tours for adults and families. Log onto www.mobot.org/gardeninghelp*	▪ Garden Buds: Birds $☎ ▪ Native Plant School: Managing Backyard Quail. SNR. $☎	*Explore the beauty and wonder of spring with your preschooler. Register for Garden Buds today: call (314) 577-9506.*	BUZZ. BH. $☎
19	20	21	22	23	24	25
				** Members' Day: Tour Butterfly House. See p. 22.	Fr. William Faherty, S.J. signs his book *The St. Louis Irish.* 2 p.m. RC.	▪ SpringDig. See p. 13. ▪ Public tours. EC ▪ *Lecture:* Lilies. 10 a.m. SP
26	27	28	29	30	31	01
Public tours. EC.	▪ St. Louis Guild of Rug Hookcrafters display and demo. RC. ▪ From the Garden, Live. noon. RC ▪ Garden Buds Sun and Moon $☎	*Lectures: For more information on lectures at the Garden, visit the online calendar at www.mobot.org/events/calendar.asp*	Great Garden Contest See p. 22.	Garden Buds: Sun and Moon $☎	blooming now... 90,000 bulbs in bloom... azaleas galore... flowering cherry, plum, dogwood, and redbud	St. Louis Guild of Rug Hookcrafters display and demo. RC. ▪ Children's Garden sneak peek weekend. See p. 10. ▪ Mid-America Regional Lily Society show and sale. RC.
02	03	04	05	06	07	08
▪ Children's Garden sneak peek weekend. See p. 10. ▪ Mid-America Regional Lily Society show and sale. RC. ▪ From the Garden, Live. noon. RC.					Arbor Day tree giveaway. See p 22.	** Members' Event: Eggstravaganza. See p. 22. ▪ Children's Garden sneak peek weekend. See p. 10 ▪ BUZZ. BH. $☎
Palm Sunday 09	10	11	12	*Passover* 13	*Good Friday* 14	15
▪ Children's Garden sneak peek weekend. See p. 10. ▪ From the Garden, Live. noon. RC.			*Register now for Camp MBG this summer. Call (314) 577-9506 for information.*	Native Plant School. Woodland Wildflowers. SNR $☎	*Lecture:* Rock Gardens. 4 p.m. RC.	▪ Children's Garden sneak peek weekend. See p. 10. ▪ Greater St. Louis Daffodil Society show. noon to 5 p.m. RC. ▪ Public tours. EC.
Easter 16	17	18	19	20	21	22
▪ Children's Garden sneak peek weekend. See p. 10. ▪ Greater St. Louis Daffodil Society show. RC. ▪ Public tours. EC. ▪ Easter Brunch. Sassafras. $☎	Little Sprouts $☎	Little Sprouts $☎		Garden Buds: the Giving Tree $☎	St. Louis Herb Society Herb Weekend	▪ Children's Garden sneak peek weekend. See p. 10. ▪ St. Louis Herb Society Herb Weekend ▪ Earth Day, 10 a.m. to 3 p.m. Garden, BH
23	24	25	26	27	28	29
▪ Children's Garden sneak peek weekend. See p. 10. ▪ St. Louis Herb Society Herb Weekend ▪ From the Garden, Live. noon. RC. ▪ Garden Buds: Giving Tree $☎	** Members' Day: *Glass at the Garden.* See p. 9. Little Sprouts $☎	Little Sprouts $☎			*Lecture:* Lady's Slipper Orchids. 4 p.m. RC	▪ Children's Garden sneak peek weekend. See p. 10. ▪ Chihuly gala. See p. 9.
30						
▪ Children's Garden sneak peek weekend. See p. 10. ▪ through Oct. 31 *Glass in the Garden: Chihuly at the Missouri Botanical Garden.* See p. 8–9.						

BH = Butterfly House
CA = Cohen Amphitheater
CL = Climatron
EC = EarthWays Center
GGS = Garden Gate Shop
JG = Japanese Garden
KC = Kemper Center
LS = Little Shop Around the Corner
MC = Monsanto Center
RC = Ridgway Center
SNR = Shaw Nature Reserve
SP = Spink Pavilion
** denotes a members-only event
$ denotes an additional fee
☎ denotes reservations required

Please check MBG, SNR, EC, and BH websites for more details.

photos by Matt Bender, Lisa Francis, MBG Plantfinder, Joseph Monken, and Flora Stadler

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general information

The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Parking is free.

Adults age 13–64 ..... $8
Members and children 12 and under .... free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings from 9 a.m. to noon (unless special event pricing applies).

**Special events require an additional fee.*

General Garden ..... (314) 577-5100
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Plant Doctor ..... (314) 577-5143

credits

Editor: Elizabeth McNulty
Designers: Matt Bender, Ellen Flesch, and Justin Visnesky
Cover photo: Climatron grounds in spring, Foreground tulip bed: 'Monte Carlo,' 'Rainbow Warrior,' and 'West Point.' Background tulip bed: 'Mickey Mouse,' 'Kingsblood,' and 'Queen of Night.' Photo by Matt Bender.
Back cover photo: Coming soon: Doris I. Schnuck Children's Garden. Photo by Josh Monken

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The BULLETIN (ISSN 0026-6507) is published bi-monthly by the Missouri Botanical Garden, 4344 Shaw Blvd, St. Louis, MO 63110. Periodicals postage paid at St. Louis, MO.

Postmaster: Please send address changes to: *Bulletin*, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

Printed on 100% post-consumer recycled paper manufactured with 100% wind power.

Don't miss the new Doris I. Schnuck Children's Garden: A Missouri Adventure sneak peek weekends in April. See pages 10–11 for more details.

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Missouri Botanical Garden bulletin

May/June 2006 Vol. 94, No. 3

From the President...

In his much-discussed book *Last Child in the Woods*, author Richard Louv reports that children today have fewer chances to interact with nature than ever before. Researchers have concluded that ages 4 to 9 are among the most influential on formation of adult attitudes and interests. If our children do not have contact with nature during these crucial years, how will they establish the connections and learn the lessons that help create a well-informed, conscientious citizenry who can become stewards of the Earth?

About eight years ago, the Missouri Botanical Garden recognized this crisis and began crafting a plan for what is now the Doris I. Schnuck Children's Garden: A Missouri Adventure. The Garden has always held many attractions for children, but the new garden is designed to reach children at their most impressionable ages and provide lessons in nature and natural history in a fun setting. The Garden's Education Division has developed a curriculum for teaching and learning within the new area.

Humans are dependent on plants in every area of our lives, from the food we eat to the medicines we take to the clothing we wear. How wonderful that we now have a unique place—A Missouri Adventure—for our children to make these connections and learn about plants, people, and our regional history! Over 20,000 visitors explored this new garden on weekends in April, and now that the facility is open daily, even more are anticipated. We are very grateful to the Donald Schnuck Family for providing the lead gift, and to the many donors who made this fine facility a reality. The Missouri Botanical Garden is fulfilling promises made in the *Stewards of the Earth* campaign. Those who supported this campaign have the satisfaction of knowing that their gifts are at work every day, both in St. Louis and around the world.

We are pleased to acknowledge Emerson as the presenting sponsor of *Glass in the Garden: Chihuly at the Missouri Botanical Garden*. This blockbuster exhibition of glass sculptures inspired by nature was designed to highlight the unique plants and views of our world-famous Climatron conservatory, Shoenberg Temperate House, and locations throughout the grounds. Members enjoy special exhibition benefits, so I hope that you will all find time to take in this gorgeous display.

See you on the grounds,

Peter H. Raven

Peter H. Raven
President

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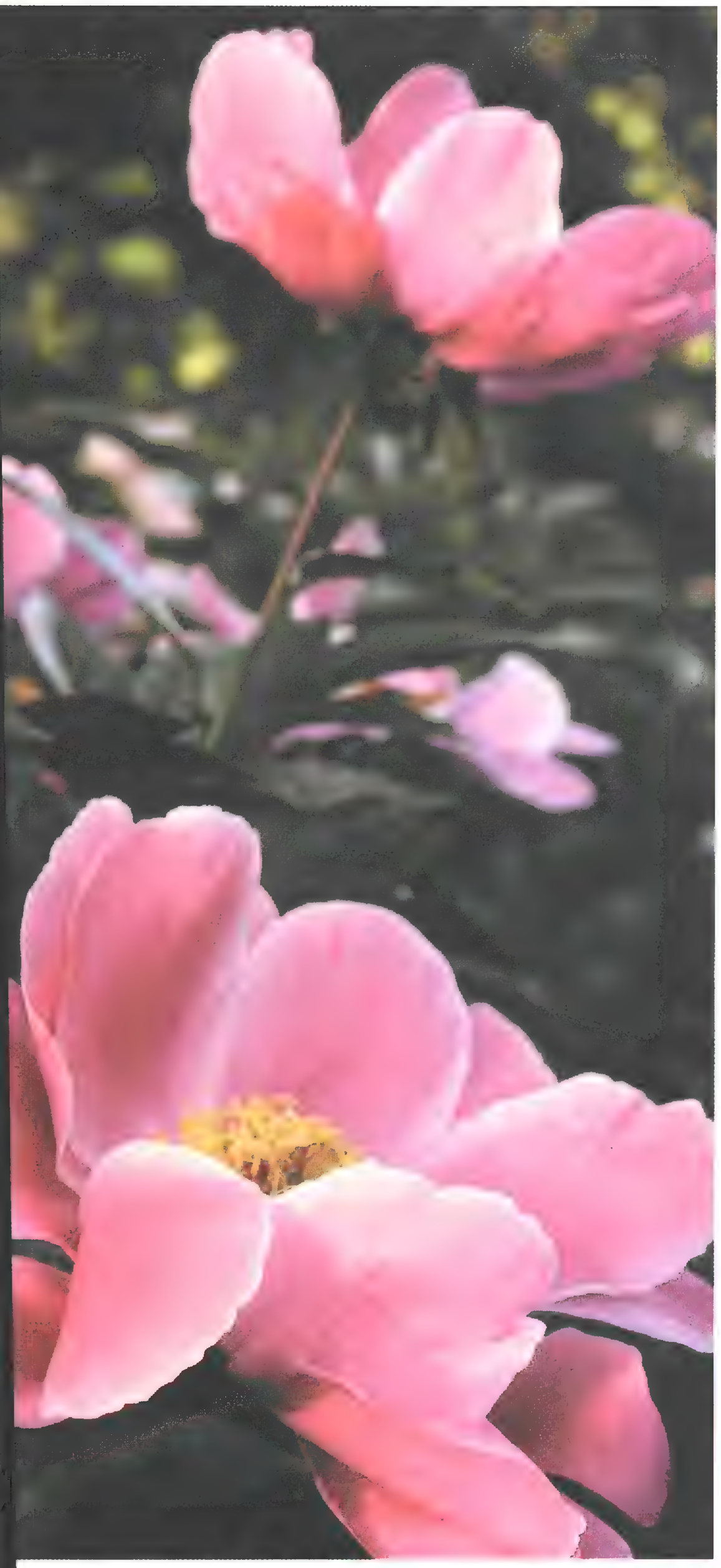

Pink peonies (unknown cultivar) in the Japanese Garden.

A Passion for Peonies

"Oh, they're nothing special," says Horticulture Supervisor Ben Chu when asked about the peonies in the Japanese Garden. This is the hazard of working at one of the world's most beautiful gardens: you get a bit jaded. Even after we've witnessed the grand opening of the Carver Garden, the Children's Garden, and the display of some 87,000 bulbs, those peonies are still something special.

Deliciously fragrant, with the blowsy beauty beloved of home gardeners everywhere, peonies are some of the most gorgeous flowers known to the Northern Hemisphere and were renowned in antiquity for their medicinal properties. In Greek myth, the physician Paeon cured Hades (god of the underworld) of an arrow wound. This upstaged his teacher Aesculapius, the god of healing, who jealously caused Paeon's death. However the grateful Hades saved the doctor by transforming him into the plant that continues to bear his name.

The Garden's collection of peonies dates to the founding of the Japanese Garden in the late 1970s, when renowned garden architect Koichi Kawana sought to introduce a contrasting element to the starkness of the dry landscape across the path. Most flowers are pinks and whites with the occasional red, but the cultivars are unsure. "The tags fell off or were otherwise lost, so the older plants are unknown," says Chu. "Newer varieties include 'Zuzu' [light pink], and 'Mikado' and 'Scarlett O'Hara' [red]."

In a year when the Whitaker Music Festival is restored to its full glory in the grassy Cohen amphitheater, and when the *Glass in the Garden* Chihuly exhibition is expected to bring hundreds of thousands of new visitors, it's nice to remember that there are *always* good reasons to come to the Garden. Like peonies. Peonies are in bloom *right now* in the Japanese Garden. Don't miss them. –Ed.

MISSOURI BOTANICAL

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News

What's Growing on at the Garden

Storm Damage

On Sunday, April 2, a line of severe thunderstorms developed during the afternoon across Central Missouri and quickly raced east across Eastern Missouri into Central Illinois, spawning tornadoes and bringing damaging winds in excess of 70 mph to a large portion of the St. Louis metropolitan area. Hail ranging from pea to baseball size was observed, and over 200,000 people lost power during the height of the storm. Most trees had just began to bud, and there was little visible foliage. Nonetheless, the dramatic winds toppled trees throughout the region, including 10 at the Missouri Botanical Garden, mostly on the Garden's exposed west side.

A mature flowering catalpa in the Chinese Garden was snapped in half by high winds on April 2.

Gift to Restore Drum Bridge

When an engineering inspection revealed that the Japanese Garden Drum Bridge had shifted, a generous gift of the Dr. and Mrs. David M. Kipnis family allowed the Garden to undertake the extensive repair required. In early April, bladders were inflated on either side as dams, so that equipment could be driven down into the lakebed. Crews of workers toiled on the project for three weeks. Preparations were rewarded when Chihuly opted to suspend a chandelier from the restored span as part of the *Glass in the Garden* exhibition.

Workers dammed off the Japanese Garden Drum Bridge in early April in order to stabilize its piers.

Iris Society Donation

The Greater Saint Louis Iris Society donated the proceeds of their very successful 2005 national convention to the Garden for the maintenance of the iris collection in the Alice Hahn Goodman Iris Garden. The funds will be applied toward the purchase of new plants, labels, and interpretive materials.

Riley Probst of the Greater St. Louis Iris Society presents a check to Vice President of Horticulture Jim Cocos and Senior Horticulturist Jason Delaney.

It's Wonder-ful!

In March, more than 4,000 readers of the *St. Louis Post-Dispatch* voted the Missouri Botanical Garden one of the "Seven Wonders of St. Louis," along with the Gateway Arch, Forest Park, Eads Bridge, Fox Theatre, the Cathedral Basilica, and Union Station. In the accompanying article, one reader recounted a trip to Italy where he met a botany professor who listed the Garden as the first place he would go, were he ever to visit the United States.

Brazilian Artist in Residency

During a week-long residency in early April, Brazilian artist Janaina Tschäpe created a new series of photographs and videos at the Missouri Botanical Garden. The work will appear this September in her solo exhibition *Melantropics* at the Contemporary Art Museum St. Louis. Tschäpe's images capture female figures in otherworldly costumes with appendages of latex, fabrics, and inflatables as part of lush garden environments. Their titles, such as *Floribunda Noturna*, are derived from the artist's fictive botanical nomenclature.

Brazilian artist Janaina Tschäpe creates a tableau in the Japanese Garden this April.

State Farm Donation

Representatives of the State Farm Insurance Companies visited the Garden in February to observe a Garden Education Compact class at the Commerce Bank Center for Science Education and to present a check to the Garden for general support. The State Farm Companies Foundation has generously supported the Garden Education Compact Program over the past several years.

State Farm representatives Cathy Roth, David Wong, Mary Bitzer, Karen Mayfield, and Tia Lindell, with the Garden's Vice President for Institutional Advancement, Patty Arnold (third from left).

In memoriam

Richard R. Clinebell, II, 1945–2006

Missouri Botanical Garden Research Associate Dr. Richard Clinebell died unexpectedly of a stroke on February 16, 2006. He was 60 years old. Born in Wyoming, Illinois, Clinebell graduated from Knox College in 1968 and pursued various interests before returning to academia, taking masters degrees from Washington University (statistics) and UM-St. Louis (biology), and a Ph.D. from St. Louis University in 1998, working with Dr. Peter Bernhardt on *Penstemon*. His research specialized in the interaction among plants and pollinating insects. He worked with the late Dr. Al Gentry on neotropical plant diversity, with Drs. Peter Raven and Peter Hoch on pollination of *Onagraceae* (evening primrose family), and on pollination ecology of local plant communities. He had an intense interest in local prairie communities, working at the Shaw Nature Reserve, Litzinger Road Ecology Center, and many prairie reserves around the region. He is survived by his partner, Donald Hardin of St. Louis, and one brother, Gary Clinebell of Wyoming, Illinois.

Jan Salick Radio Expedition

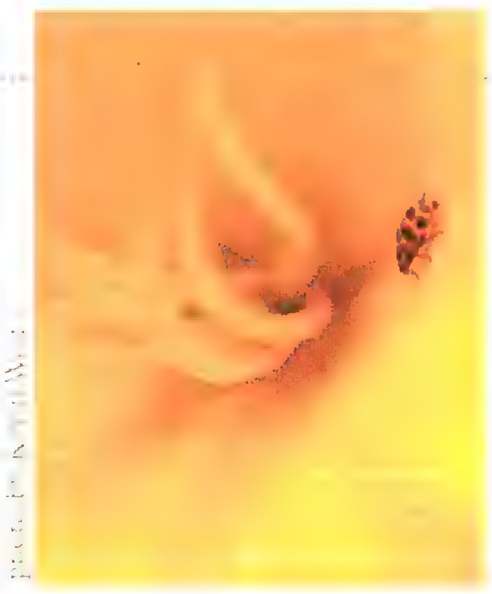
On February 20, 21, and 22, local listeners of National Public Radio's *Morning Edition* might have heard the voice of the Garden's own Dr. Jan Salick, Alice H. Brown Curator of Economic Botany. Salick was profiled as part of an NPR/National Geographic "Radio Expedition," and discussed the link between global warming and disappearing plant life high in the Himalayas. To listen to the story, visit www.npr.org and search "Jan Salick."

Television Program Wins Award

An episode of "The Unseen Garden" has won a 2005 National Telly Award for outstanding informational program out of more than 12,000 entries from leading production companies such as PBS, NBC, and CNN. "The Unseen Garden" is a quarterly television show about the behind-the-scenes activities of the Missouri Botanical Garden produced by the Higher Education Channel (HEC-TV). Watch for it in St. Louis on cable channel 13 or 26.

What's in Bloom, the PodCast

The Missouri Botanical Garden is proud to be the first botanical garden to offer podcasts of "What's in Bloom" our our Website. From the terms "iPod" and "broadcast," *podcasting* is a method of distributing multimedia files over the Internet for playback on mobile devices and personal computers. A Garden team of education, horticulture, and technology specialists has been working since January on the first 17 episodes. "We're really excited about it," says the Garden's Adult Education Manager, Glenn Kopp. "This is the natural culmination of over 10 years-plus of bloom data collection. We are extremely grateful for the many hours of work the plant recorder volunteers have devoted to this project." Don't have an iPod or MP3 player? Just listen online while viewing the plants at the same address where you can subscribe for the weekly podcast: www.mobot.org/gardeninghelp/plantfinder/pib.asp.



2005 Annual Report

The Missouri Botanical Garden *2005 Annual Report* is now available. To request a copy, call (314) 577-0221 or e-mail: laura.deyoung@mobot.org.

Trend Alert: Mailbox Gardens

by June Hutson, Horticulture Supervisor–Outdoor

Many people plant flowers around the mailbox. In fact, sometimes it's the only garden they have. But for all their popularity, many mailbox "gardens" are an impromptu affair, lacking a sense of design. Adding to the challenge: the mailboxes themselves are often "planted" in areas with tough conditions—streetside, full sun, far from the hose or sprinkler. The wrong plant choices could end up a dried-out mess, or worse, blocking your view as you back down the driveway!

The Kemper Center for Home Gardening features eight acres of display beds to showcase the most dependable choices for area gardeners for everything from turfgrass to vegetables to ornamentals. Each year we highlight a different trend in our Experimental Bed. The 2006 bed will feature mailbox gardens—eight in total, each unique in design and plant materials. Come by and check them out and look for new and inspiring ideas from your friends at the Kemper Center.

Upgrade Your Membership

There's never been a better time to upgrade your membership than this year. When you upgrade from the Regular to the Family level, not only will you obtain free, unlimited admission to the Garden for you and TEN guests (plus all children 12 and under), but you will also receive 20 Bonus Bloom passes, good for tram rides, Butterfly House admission, the Doris I. Schnuck Children's Garden—and now the Chihuly exhibition! For a limited time, you will also receive your choice of a darling pair of children's binoculars perfect for spying far distances from the Tree House in the Children's Garden, or a lovely totebag from *Glass in the Garden*. Don't delay: upgrade today! Call (314) 577-5118 or e-mail: Membership@mobot.org.

photo by Kevin Wolf

Don't Pitch those Pots!

Don't throw away those plastic pots and trays after planting your new spring garden items. Recycle them and receive a free pass for two to the Garden. Collections will be recycled locally into plastic "lumber" for use in raised garden bed kits and compost bins available for purchase.

Dr. Steven Cline, manager of the Kemper Center for Home Gardening, started the program in 1998. "This represents the eighth year in our recycling effort to reduce this waste stream that nationally represents over 350 million pounds pitched into our landfills," said Cline. "Imagine Busch Stadium filled one-and-one-half times to the top, and you have a good picture of what is being deposited each year. We are simply closing the recycling loop by offering this service—and the products it can create—back to gardeners."

Program organizers hope to collect 100,000 pounds of horticultural plastic this year, up from 60,000 pounds in 2005. Proceeds from last year's lumber sales assisted the Garden's purchase of a larger granulator to process plastic into chips, doubling the former capacity. St. Louis–Jefferson Solid Waste Management District and Monrovia Growers, Inc., help sponsor the Pots-to-Planks program.

Collection dates: Saturdays and Sundays, May 20 through June 25, 9 a.m. to 4 p.m. Horticultural plastic only. Please empty all soil from containers and remove any metal hangers before recycling.

Collection points: Missouri Botanical Garden Monsanto Center parking lot, 4500 Shaw Boulevard. Satellite collection points: Waldbart & Sons, For the Garden by Haefners, Summerwinds at Timber Creek, Schmittels Nursery, City of Kirkwood Recycling Center, and City of St. Peters Recycling Center.

Purchase planks: Plastic lumber lasts fifty years and is suitable for building decks, walkways, picnic tables, or any other project where wood and water meet. Black, eight-foot, two-inch by six-inch lumber planks are available for purchase by the board for $11.60. Three sizes of raised bed kits come pre-drilled and ready-to-assemble with hardware included. The side, central, and expert planters range in price from $59.99 to $89.99 each. A backyard composter is also available for $94.99. For more information, call (314) 577-9441 or download a brochure at www.mobot.org/hort/activ/PlasticPotsLumBro06.pdf.
Proceeds benefit the Pots-to-Planks program.

Introducing the Terrace Café

The Terrace Café in the Kemper Center for Home Gardening is now open. Open daily from 10 a.m. to 3 p.m., the Terrace Café offers chic seating in a greenhouse setting and serves a small menu of sandwiches, salad, snacks, and drinks. A great options for families on the go, visitors to the Doris I. Schnuck Children's Garden and Home Gardening Center, or for anyone who'd like a snack and a beverage before walking back to the Ridgway Center. Check out this new option for dining at the Garden today!

Plant of Merit

Geranium 'Gerwat' ROZANNE

A patented hybrid geranium that grows in a mound to 20" tall by 24" wide, ROZANNE is noted for its exceptional heat tolerance and almost non-stop flowering throughout the St. Louis growing season. Large, five-petaled, violet-blue flowers (to 2.5" diameter) with purple-violet veins and small white centers. Deeply cut, slightly marbled, deep green foliage. Best grown in full sun with some afternoon protection. Cut back to shape and encourage additional bloom.

Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org

Welcome to the Children's Garden

On the sunny morning of April 1, 2006, a crowd of eager children gathered round for the grand opening of the new Doris I. Schnuck Children's Garden: A Missouri Adventure. The first official visitor (pictured in the fourth photo from the left above) was sixth-grader Rachel Downing of O'Fallon, Missouri, who submitted the winning entry in the Garden's "Name That Frog" contest. The Garden's new mascot will be named Finn. "The name reminds me of Huckleberry Finn and Mark Twain, which were both from Missouri," as Rachel wrote in her entry ballot. "It is also fun and easy for kids to say."

Q&A

Why is the new Doris. I. Schnuck Children's Garden called A Missouri Adventure?

In just under two acres, we have managed to represent all of the major Missouri ecosystems—from wetlands and ponds and swamps to woodlands, prairies, even a cave. It truly is a Missouri adventure! Of course, the greater goal is to help children identify with their local natural community. With a sense of belonging and ownership comes the desire to preserve and protect. So, the Garden is inviting children to become involved and invested in issues of ecology and conservation.

What was the rationale behind setting the new garden in 19th-century Missouri?

Henry Shaw opened the Missouri Botanical Garden to the public in 1859. Parts of the Garden, such as Tower Grove House and the Victorian Area, directly reveal this historic connection. History and natural history are always intertwined, and the 19th century was such a

now open!

Children's Garden Hours

May to October: daily, 9 a.m. to 5 p.m.
November, March: weekends
(weather permitting)
Closed December through February.

Children's Garden Admission

Children (including members' children) ages 3–12: $3
Children ages 2 and under: free
Adults: free (in addition to general Garden admission)
All children must be accompanied by an adult.

Members' Free First Tuesdays

Members' children enjoy free admission on the first Tuesday of the month from 9 to 11:30 a.m. (Adults are always free.) Members may also use Bonus Bloom passes for admission at any time.

dramatic time of growth for St. Louis and the region. When better to discuss dynamic interactions between people and the natural landscape? Many children today know more about the rain forest than they do about their own backyard.

Is the Children's Garden a playground?

The Children's Garden is not a playground, but it does feature places and interactive elements to encourage play. Recent research suggests that play is very important, not only to children's physical development, but to cognitive, social, and emotional development as well. All of the interactive installations in the Children's Garden were thoughtfully designed to address specific areas of learning and development. For example, the bark book is manipulated by turning the pages back and forth. For reasons not yet fully understood, children with learning disabilities often have difficulty crossing the midline of their bodies. The bark book helps these children practice that action. Whether climbing the wall, crossing the rope bridge, or exploring the cave, children are developing balance, coordination—and confidence!

What educational opportunities will be available?

A Missouri Adventure is designed as a learning-by-doing experience. Story signs throughout offer a variety of "guided" experiences—with Mark Twain, Lewis and Clark, and Sacagawea, Henry Shaw, and Daniel Boone. Children learn about botany in places like the General Store, where they see all the many foods, medicines, and other substances that come from plants. They learn about conservation in the graveyard of endangered plants and the jail for rounding up invasive plants. Additionally, volunteer Pathfinders in the garden every weekend offer more personalized lessons on different botanical themes.

In the future, we intend to offer drop-in Green Hour family activities with a focus on nature, nutrition, fitness, and exercise in conjunction with the National Wildlife Federation's program. Garden preschool and school-age programs will also have a Children's Garden component, going forward.

What plants are included in the Children's Garden?

New gardens take at least three years to mature, so what visitors see today in the Children's Garden is really just the beginning. As of today [April 24], only about 45 percent of the Children's Garden has been planted. When completed, over 90 percent of all plants will be Missouri natives. The garden will get greener quickly, but it won't be fully mature for at least three years.

Birthday Parties

Available Fridays through Sundays, June through October.
Call (314) 577-9588 at least 3 weeks in advance.

Volunteers Needed

Become a Pathfinder. Call Jackie Juras at (314) 577-5187 today.

Attending the Donor Dedication, above right, clockwise from lower left: Jane Tschudy, Bob Tschudy, Craig Schnuck, Todd Schnuck, Scott Schnuck, Dr. Peter H. Raven (president of the Missouri Botanical Garden), David Diener (Dana Brown Charitable Trust), Deborah Patterson (Monsanto Fund), Mary Ann Lee, Justin Gioia (A.G. Edwards), and Nancy Schnuck Diemer.

photos by Kristi Foster, Tim Parker, and Erin Whitson.
Artwork by Matt Bender.

Glass in the Garden Arrives!

On Friday, April 14, trucks carrying thousands of carefully packed boxes labeled "FRAGILE" arrived at the Missouri Botanical Garden to be met the following Monday by a team of 11 studio assistants from Chihuly Studios in Seattle, Washington. *Glass in the Garden: Chihuly at the Missouri Botanical Garden* showcases over three dozen monumental glass works by the renowned artist, Dale Chihuly.

With less than two weeks until the exhibition opening on April 30, the installers went to work with professional precision. At press time, the team had completed the 10 exterior installations and was well on the way to completion of the ticketed Climatron and Temperate House installations, where the majority of the pieces are on display.

"It's been an enjoyable process," says Jennifer Lewis of Chihuly Studios. "The Missouri Botanical Garden was well-prepared and provided much assistance, putting many people at our disposal. Also, the weather cooperated."

In January, an advance team installed the stunning 20-foot blown glass sculpture, "Missouri Botanical Garden Blue Chandelier, 2006," above the entrance to the Missouri Botanical Garden's Ridgway Center.

Dale Chihuly (pronounced *Chi HOO lee*, the name is of Slovakian origin) was born in 1941 in Tacoma, Washington. Introduced to glass in college, he was awarded a Fulbright Fellowship to work at the Venini glass factory in Venice, Italy, and later taught and established major glass art programs in the U.S. His work is displayed in over 200 museum collections worldwide. He learned the value of teamwork in Italy, and today, Chihuly directs a team of studio assistants who execute his ideas, both in the glassblowing studio and in building sculpture from the glass parts. Read about Chihuly and his art at www.chihuly.com.

Inspired by his mother's love of flowers and plants, and fascinated by the glass architecture of conservatories, Chihuly has focused recently on botanical gardens. His first garden exhibition was presented in 2001 at the Garfield Park Conservatory in Chicago and more recently at the Royal Botanic Gardens at Kew near London. He is known for his vibrantly colorful, fluid, organic style of monumental abstract glass sculptures, often in complex groupings. *Glass in the Garden* has been uniquely designed to complement the vistas and vegetation of the Missouri Botanical Garden, and features examples of Chihuly's most well-known series, including *chandeliers*, *Niijima floats*, *ikebana*, *macchia*, and his latest, the *fiori*.

Chihuly Nights

Thursdays, May 11 to October 26, 6 to 10 p.m. (last entry 9 p.m.)
Experience dramatically lit views of the art and the beauty of the Garden after hours with music and glass-blowing demonstrations and a cash bar and hors d'oeuvres for purchase. Indoor/outdoor dining at the Kaleidoscope Café at Spink Pavilion. Admission to *Chihuly Nights* is $15 (Garden members $10). Reservations are not required.

Hot Shop

Watch local artists from the Third Degree Glass Factory create objects out of molten glass during *Chihuly Nights* on Thursdays and on Saturdays from 10 a.m. to noon at the hot shop near the Linnean House.

Tram Tours

Using acrylic on vinyl, Chihuly decorated the underside of three tram canopies for use during *Glass in the Garden*. Catch a glimpse of these beautiful works of art on narrated tours. For just $3 per person, riders enjoy a 25-minute overview of the Garden's history and features. Members may use their Bonus Bloom passes.

Glass in the Garden: Chihuly at the Missouri Botanical Garden

Presented by Emerson

Now through October 31

Hours: 8:30 to 5:30 p.m. daily. Last entry is at 5 p.m.

Admission: Monday through Thursday: $10-14;
Friday through Sunday $12-16
(includes Garden admission)
Garden members and children 12 and under: $3

How to arrange…

Group tours:
Call the Tourism Department at (314) 577-9588, (314) 577-0275, or e-mail tourism@mobot.org.

School groups:
Call the Education Division at (314) 577-5140. Creative, fun summer programs inspired by the Chihuly art will be offered for pre-schoolers through the sixth grade level. To inquire, call (314) 577-9506.

Weddings or private parties:
An exclusive evening viewing of *Glass in the Garden* or a private party, dinner, wedding, or reception may be hosted at several Garden venues, including the new Emerson Pavilion. Call Catering St. Louis at (314) 961-7588, extension 221 or visit www.cateringstlouis.com. For an event that does not require catering services, call the Meeting Specialist at (314) 577-9560.

Thank You for Being a Member!

As a Garden member, you receive a bouquet of benefits. Visit www.mobot.org and click on "Members' Benefits for *Glass in the Garden*" to see all the advantages at all the levels. For Regular and Senior members, you'll enjoy:

- Free Members' Mornings for member and one guest on the first Tuesday of every month from 9 to 11:30 a.m. Additional guests are just $3 each.
- Members' admission to the Chihuly exhibition at other times is only $3, a savings up to $13 off the general admission and exhibition price.
- Special members-only entry points for expedited service.
- Members may purchase timed tickets online 90 days in advance, compared to 30 days for the general public. Visit www.mobot.org and use the members' code: "henryshaw" to receive your discount.
- Members' admission to *Chihuly Nights* each Thursday is only $10, a savings of $5.

Glass in the Garden *continued*

Hot Tips for Cool Glass

Record-breaking crowds are expected for Glass in the Garden, so here are some tips you may wish to consider when planning your visit.

- Speed through admissions by purchasing tickets online at www.mobot.org. Members: use the code "henryshaw" to book your tickets earlier and with your members' discount.
- Avoid crowds: visit on Monday or Thursday morning, the slowest days.
- Dress for the weather. Tickets are good rain or shine and will not be refunded or exchanged.
- Allow a minimum of one hour prior to your ticket time to park, be admitted, and approach the exhibit.
- Free parking is available on Garden grounds and also at new parking facilities just 2 blocks west at the corner of Shaw and Vandeventer.
- Please note: no tripods or monopods will be allowed in the Climatron during the Chihuly exhibit.

Become a Chihuly Ambassador!

Volunteers are still needed for *Glass in the Garden* to help direct visitors and share knowledge. Training will be provided. Shifts are available seven days a week, morning or afternoon, on days, evenings, and weekends. A four-hour commitment is requested. Volunteers will be assigned both inside and outdoors, but your preference will be considered. Call (314) 577-5187 or e-mail jackie.juras@mobot.org.

Members' Trip to Seattle

In conjunction with the *Glass in the Garden* exhibition, Garden members are invited to travel with Drs. Peter and Patricia Raven to Seattle, Washington in August for a private tour of Chihuly's boathouse studio and a visit to the Tacoma Art Museum of Glass and the Chihuly Bridge of Glass. Travelers will also enjoy an excursion to Bainbridge Island, home of the Bloedel Reserve, and an exclusive tour with the Reserve's Executive Director. Two dates are offered: August 26-29 and August 29-September 1. The fee is $1,800 per person. A donation to the Missouri Botanical Garden is also requested. Availability is extremely limited so please do not wait to make reservations. Contact Cathy Robinson at Brentwood Travel at (314) 439-5700, ext. 114. If you have additional questions, please call (314) 577-9432 or e-mail stephanie.nolte@mobot.org.

CHINESE CULTURE DAYS

Sat.–Sun., May 20–21
10 a.m. to 5 p.m.
General admission:
$10 ($7 for seniors 65+)
Members and children 12 and under: $3

中華日

CHINESE CULTURE DAYS

Chinese opera joins the annual program of folk dance, fashion, food, and martial arts at the 2006 Chinese Culture Days. A 70-foot dragon, meant to dispel bad luck and evil spirits, kicks off the event during the parade at 10 a.m. on Saturday.

Jingju, or Beijing Opera, bears little resemblance to Western opera and instead draws from theatrical forms extending back to 12th-century China. Performances combine song, poetry, acting, acrobatics, and martial arts. Costumes feature magnificent embroidery and headdresses, jeweled sashes, and high shoes. The actors' painted faces have special meaning: heroes are painted in simple colors, villains wear more complicated designs. The screeching falsetto voices, loud clacking of clappers, and noisy banging of drums and cymbals sound both strange and intriguing to Western ears. The Chinese Culture Days production will feature stories of famous fairy tales and historical events and will be performed in Chinese with English narration.

Visitors to Chinese Culture Days may also take part in guided tours of the Grigg Nanjing Friendship Garden, always beautiful in springtime, t'ai chi performances, and traditional tea tastings. Regional Chinese foods by local restaurants will be available for purchase. Please note: trams do not operate during signature events. Tickets to *Glass in the Garden* must be purchased separately.

Established with the opening of the Grigg Nanjing Friendship Garden in 1996, Chinese Culture Days celebrates the long and distinguished ties between China and the Missouri Botanical Garden. With some 30,000 species of plants, China holds about one-eighth of the world's known plants and twice as many as the continental United States. Many of our most familiar ornamentals originated in China, including azaleas and rhododendrons, camellias, gardenias, hibiscus, peonies, chrysanthemums, and ginkgos. The flora is renowned for its medicinal properties as well. Through the *Flora of China* project, a 50-volume joint publication, MBG researchers are working to identify and assist in conservation of this unique plant life.

SCHEDULE OF EVENTS

Saturday, May 20 & Sunday, May 21

Please visit www.mobot.org for a complete schedule.

10:00–11:00 a.m.	Opening Parade and Ceremony (Saturday only)
11:00–11:45 a.m.	Chinese Opera
12:00–1:00 p.m.	Traditional Performing Arts Program
1:00–2:00 p.m.	Song of Eternal Love
2:00–2:30 p.m.	GRAND PARADE
2:30–3:15 p.m.	Chinese Opera
3:30–4:30 p.m.	Traditional Performing Arts Program
4:30–5:30 p.m.	Song of Eternal Love

photo by Josh Monken

Whitaker Music Festival 2006

Ten free concerts, Wednesdays at 7:30 p.m.

June 7	Peter Martin, *Tribute to New Orleans*
June 14	Saint Louis Stompers, *ragtime and dixieland jazz*
June 21	Tom Byrne Quartet, *smooth jazz guitar*
June 28	Mardra and Reggie Thomas, *Remembering Billie Holiday*
July 5	Bel Airs, *classic R&B*
July 12	Vargas featuring Dawn Weber, *swingin' rock originals*
July 19	Flying Mules, *Missouri folk and bluegrass*
July 26	Rogers, Neinhaus and Crawford, *folk-rock*
August 2	Autumn's Child, *world music for the 21st century*
August 9	Raven Moon, *an eclectic mix of acoustic music*

The Whitaker Music Festival returns to the Cohen Amphitheater lawn this summer, presenting free concerts every Wednesday at 7:30 p.m., June 7 through August 9. Now in its 12th year, the open-air festival traditionally hosts jazz in June and showcases a variety of musical styles thereafter. The Garden in bloom is one of the area's loveliest places to gather for a relaxing summer evening of fine, free entertainment.

The festival is funded by the Whitaker Foundation, which supports St. Louis arts and parks to promote common heritage, celebrate diversity, and encourage vitality within the community. Admission to the Garden is free on Wednesday concert evenings after 5 p.m. Visitors are encouraged to arrive before the band starts, walk through the Garden, and see some of the art created by Dale Chihuly for this year's *Glass in the Garden* exhibition. Several blown glass sculptures will be displayed outdoors in fountains, reflecting pools, and flower beds. (Much more of Chihuly's art will be inside the Climatron conservatory, which is closed on Wednesday concert evenings. Special admission is charged to enter the indoor exhibition.)

Concertgoers may bring lawn chairs, blankets, and picnic suppers to enjoy on the amphitheater lawn or grounds nearby. Seating is first come, first served. The Whitaker Music Festival is the only occasion when picnicking is allowed at the Garden. Sandwiches, snacks, cookies, beer, wine, and other beverages may also be purchased. Pets and barbecue grills are not allowed. Please note: smoking is not allowed. In case of rain, check the Garden's website at www.mobot.org or tune in to radio station WSIE, 88.7 FM, for cancellation information.

Free off-street parking is available on the Garden grounds and at two auxiliary lots at the Shaw-Vandeventer intersection two blocks west. Enter the Garden via the main entrance driveway on Shaw Boulevard or pedestrian gates on Alfred Avenue to the west and Tower Grove Avenue to the east.

What to do in your garden now...

clip and save

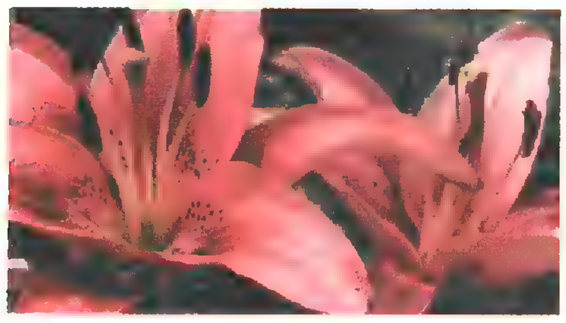


photo by Kevin Wolf

May

all month

- ❑ Pinch azaleas and rhododendron blossoms as they fade, and fertilize with an acid formulation.
- ❑ If spring rains have been sparse, begin irrigating, especially plants growing in full sun.
- ❑ Apples, crabapples, and hawthorns susceptible to rust disease should have protective fungicidal sprays applied when they bloom.
- ❑ Slugs will hide during the daytime beneath a board placed over damp ground. Check each morning and destroy any slugs that have gathered on the underside of the board.
- ❑ Growing lettuce under screening materials will slow bolting and extend harvests into hot weather.
- ❑ Mulch blueberries with pine needles or sawdust.
- ❑ Keep bluegrass cut at 1.5 to 2.5-inch height. Mow tall fescues at 2 to 3.5-inch height.

week 1

- ❑ Begin planting gladiolus bulbs as the ground warms.
- ❑ Plant hardy water lilies in tubs or garden pools.
- ❑ Continue monitoring pines for sawfly activity on new shoots.
- ❑ Don't remove spring bulb foliage or next year's flower production will decline.
- ❑ Set out and stake tomato plants as soils warm.
- ❑ Begin planting sweet corn when white oak leaves are as big as squirrel ears (isolate varieties to prevent crossing).
- ❑ Keep asparagus harvested for continued spear production (control beetles as needed).

week 2

- ❑ Thin plantings of carrots and beets to avoid overcrowding.
- ❑ Control caterpillars on broccoli and cabbage plants by handpicking or use biological sprays.
- ❑ Don't spray fruits while in bloom.

week 2

- ❑ Begin planting warm-season annuals.
- ❑ Plant summer bulbs such as cannas, caladiums, dahlias, elephant ears.
- ❑ Place a stake by seeds of squash and cucumbers when planting in hills to locate the root for watering later. Watch for striped and spotted cucumber beetles. Both may spread wilt and mosaic diseases to squash and cucumber plants.
- ❑ Mow zoysia lawns at 1.5-inch height. Remove no more than one-half inch at each mowing. Apply post-emergence broadleaf weed controls now if needed.

week 3

- ❑ Scale crawlers are active. Treat infested pines and euonymus now. Spray trees with a history of borer problems (repeat twice at 3-week intervals).
- ❑ Begin fertilizing annuals. Continue at regular intervals.
- ❑ Bulbs can be moved or divided as the foliage dies.
- ❑ Remove rhubarb seeds stalks as they appear.
- ❑ Set out peppers and eggplants after soils have warmed.
- ❑ Plant sweet potatoes.
- ❑ Zoysia lawns may be fertilized now. Apply no more than 1 lb. of actual nitrogen per 1,000 sq. ft.

week 4

- ❑ Pinch back mums to promote bushy growth.
- ❑ Make new sowings of warm-season vegetables after harvesting early crops.
- ❑ Prune unwanted shoots as they appear on fruit trees.
- ❑ Watch for sod webworms emerging now.

photo by Kevin Wolf

June

all month

- ❑ Water turf as needed to prevent drought stress. Mow lawns frequently enough to remove no more than one-third the total height per mowing. There is no need to remove clippings unless excessive. Gradually increase the mowing height of zoysia lawns throughout the summer. By September, the mowing height should be 2 to 2.5 inches. Mow bluegrass at 2 to 3.5 inch height. Turfgrasses growing in shaded conditions should be mowed at the higher recommendations.

week 1

- ❑ Watch for bagworms feeding on many garden plants, but especially juniper and arborvitae.
- ❑ Deadhead bulbs and spring perennials as blossoms fade.
- ❑ Thin seedlings to proper spacings before plants crowd each other.
- ❑ Repeat plantings of corn and beans to extend the harvest season.
- ❑ Oriental fruit moths emerge. Most serious on peaches where first generation attacks growing tips. Shoots will wilt. These should be pruned out.
- ❑ Thinning overloaded fruit trees will result in larger and healthier fruits at harvest time.
- ❑ Enjoy the strawberry harvest.

- ❑ Zoysia can be fertilized now while actively growing. Do not exceed 2–3 lbs. of actual nitrogen fertilizer per 1,000 sq. ft. per year.

week 2

- ❑ Apply organic mulches as the soil warms.
- ❑ Apply a balanced rose fertilizer after the first show of blooms is past. Apply a second spray for borer control on hardwood trees.
- ❑ Renovate strawberries after harvest. Mow the rows; thin out excess plants; remove weeds; fertilize and apply mulch for weed control.
- ❑ Summer fruiting raspberries are ripening now.

week 3

- ❑ Plant tropical water lilies when water temperatures rise above 70 degrees.
- ❑ Pruning of spring-flowering trees and shrubs should be completed before month's end. Softwood cuttings can be taken from trees and shrubs as the spring flush of growth is beginning to mature.
- ❑ Begin control for apple maggot flies. Red-painted balls that have been coated with tanglefoot may be hung in apple trees to trap egg-laying females. Spray trunks of peach trees and other stone fruits for peach tree borers.

week 4

- ❑ Trees and shrubs may still be fertilized before July 4.
- ❑ Spray roses with a fungicide to prevent black spot disease.
- ❑ Prune and train young fruit trees to eliminate poorly positioned branches and to establish proper angles.

For additional information on plant care and gardening:

- *visit the Kemper Center for Home Gardening*
- *call the Horticultural Answer Service, Monday through Friday, 9 a.m. to noon, at (314) 577-5143.*
- *check out the Gardening Help section at www.mobot.org*

Garden at large...

Recently re-introduced to the Shaw Nature Reserve, the wood frog is only about 2 inches long and resembles the color of fallen oak leaves.

Frog Song of the Wild

by James Trager, Ph.D., Restoration Biologist

Wood frogs, *Rana sylvatica*, are an essentially Canadian and New England frog species with southern outlying populations in the eastern U.S. highlands, namely, the Ozarks, Ouachitas, Shawnee Hills, and Blue Ridge. If they occurred at Shaw Nature Reserve in the past (as they probably did, since they occur in more pristine parts of Franklin and adjacent counties), they went locally extinct. This might have resulted from the extensive agriculture and clear-cutting of forest that occurred at what is now the Reserve back in the late 1800s and early 1900s.

In February 2003, Reserve staffers James Trager and Terri Brandt were invited by Dr. Owen Sexton, Washington University herpetologist, to gather egg masses of this species from a woodland pond at nearby Tyson Research Center. The thriving wood frog population at Tyson had developed from egg masses introduced from the wilds of Warren County some years before, and Dr. Sexton felt that the Shaw Nature Reserve seemed a good prospect for restoring a population of this threatened frog species by introducing eggs into appropriate ponds. This year for the first time, the soft, truncated chuckle of the male wood frog's song could be heard among the shrill of the more numerous spring peepers. So far, the wood frogs occur only in ponds into which their eggs were introduced three years ago, but it is hoped that they eventually will spread to other woodland ponds at the Reserve.

One reason introduction of just a few of the globular egg masses of wood frog can result in a genetically viable population is that mating pairs produce their eggs in a large cluster (or raft) on just a few nights each year. Sperm produced by all of the males can fertilize the eggs in the masses produced by all of the females in the group. Thus, even a dozen egg masses can contain the genetic diversity of virtually the entire breeding population.

Save the Date: Spring Wildflower Sale

Saturday, May 13, 9 a.m. to 4 p.m.
Garden members' preview sale is Friday, May 12, from 4 to 7:30 p.m.
Select from a huge variety of native wildflowers, ferns, trees, and shrubs for home landscaping at the Shaw Nature Reserve's annual Spring Wildflower Sale. "Every year interest in native landscaping grows," said Scott Woodbury, horticulturist at the Reserve. "This year we will offer over 250 species of native plants that are useful for home gardens, prairie gardens, rain gardens, and much more."

Sculpture from the Farm

Monday, May 1 through Friday, June 30
An exhibit of the sculpture of artist Robert Cumpston at the Shaw Nature Reserve Bascom House.

SHAW NATURE RESERVE

Hwy. 100 & 44 (exit 253)
Gray Summit, MO 63039
phone: (636) 451-3512
www.shawnature.org

Founded in 1925, the Shaw Nature Reserve encompasses 2,400 acres of tall-grass prairie, forests and glades, woodlands and wetlands, and 14 miles of hiking trails.

Coaching Campus Green Teams

They don't wear jerseys and they often start out with too few cheerleaders. With improved recycling as their goal, Green Teams are valiantly challenging waste on campuses around the St. Louis region, supported by the Garden's EarthWays Center.

Grants from the St. Louis-Jefferson Solid Waste Management District and the Missouri Department of Natural Resources have enabled EarthWays Center's recycling experts to form consulting partnerships with area colleges. Current participants in this program are St. Louis Community College District, Maryville University, and Webster University. St. Louis University has signed on to become a partner in the 2006–2007 academic year.

"Every campus has to configure a recycling system that meets their particular needs," explains EarthWays Center Manager Glenda Abney. "Variables include the comings and goings of student populations, whether building and grounds upkeep is done by college staff or contracted to an outside service provider, and the need to engage participation by all levels of faculty and staff."

"Support from top-level administrative leadership is essential to making recycling work," adds EarthWays Center's Jean Ponzi, who coordinates the project, "plus a campus Green Team typically has to form partnerships with purchasing and food service officials. The challenges are diverse, but there's one need common to every college and university recycling program: Education, education, education!"

Recent Green Team activity has included an all-campus waste assessment led by the Webster University Facilities Department staff; Earth Day distribution of recycling containers for all offices on the Forest Park campus of St. Louis Community College; recognition for Recycling Technicians who maintain collection on the SLCC-Meramec campus; and two weeks of Earth Day activities on the SLCC-Florissant Valley campus featuring speakers, clean-up and beautification efforts, presentations by students in environmentally-related classes and children from the campus daycare center, and a community-wide Green Fair with live music, pledge cards and exhibit tables staffed by area recycling and environmental protection organizations.

photo by Jean Ponzi

Recycling support for the St. Louis Community College District began with a full-scale waste audit, conducted by EarthWays Center to determine types and quantities of material that could be diverted from the waste stream by recycling.

"Environmental values are increasingly active forces on St. Louis campuses," notes Abney. "From course offerings to symposia to building projects aimed at earning LEED® Certification from the U.S. Green Building Council, such investments in sustainability open doors for improvements in green practice throughout an institution. EarthWays Center is proud to represent the Garden in this new partnership with our region's centers of higher learning."

photo by Jackie Juras

Kids could add a solar car to plans for their Green Dream House during Camp EarthWays 2006.

Camp EarthWays 2006 – Young Green Builders

Registration is still open for the Greenest summer camp in town! Kids entering grades 6–8 will explore green building ideas and practices as they design a model of their Green Dream House at Camp EarthWays, June 26–30. Full-day sessions (9 a.m. to 3 p.m.) will include field visits to green buildings around St. Louis and the chance to work on their designs with local green building professionals. Campers will present and display their model homes in the EarthWays Center. Camp fee is $175 ($150 for Garden members). For more information and to register call (314) 577-0220.

EARTH CENTER WAYS

3617 Grandel Square
St. Louis, MO 63108
phone (314) 577-0220
fax (314) 577-0298
www.earthwayscenter.org

Discover "green" options for home, school and workplace. Public tours offered on third weekend of every month at 11 a.m., noon, 1 p.m., and 2 p.m. Visit online for group tour bookings and other resources.

photo by Mark Deering

Monarch larvae *(Danaus plexippus)*.

Butterfly Gardening

by Phillip Stutz, Horticulture Supervisor

Attracting wildlife to your garden can be as rewarding for the gardener as for the wildlife. It has been exciting to observe the animals that have found their way to our gardens at the Butterfly House. In the outdoor Butterfly Garden, ducks, frogs, bees, and butterflies have all found refuge; some are just visiting, but others are taking up more permanent residence. Whether at the Butterfly House or in your own backyard, planting the proper plants will sustain both native and migratory butterflies.

Butterfly gardens can be grown throughout the United States with a wide variety of both butterfly-attracting (nectar) plants and host plants, and can range in size from a few containers placed in a sunny spot to several acres. Nectar-producing plants will attract butterflies to your garden, but host plants (for laying eggs and use as a caterpillar food source) must also be present for the butterfly to carry out its full lifecycle. Butterfly and host plant relationships are fairly specific. Monarch caterpillars, for instance, eat only plants in the milkweed family.

Throughout the country, the general requirements for butterfly gardening are the same: full sun, nectar source plants, larval host plants, a pesticide-free environment, and knowledge of the local butterfly fauna.

At the Butterfly House, we have established two plots to demonstrate some of the diversity of host plants found in Missouri. Included in these Caterpillar Gardens are: golden Alexanders (which attract black swallowtails), beardtongues (which attract buckeyes), and purple poppy mallows (which attract checkered skippers). You can find other host plant and butterfly partners listed on the Butterfly House website: www.butterflyhouse.org. There are many possible plants on the menu. The butterflies that you attract to your garden will be rewarded with food and shelter for their offspring, and you will be rewarded with beautiful visitors that may call your garden their home.

Great Gifts

Looking for a unique gift for Mother's Day, Father's Day, a wedding, an engagement, or a graduation? Purchase an engraved butterfly-shaped paving stone. Proceeds support the Butterfly House. For more information please call (314) 577-0874 or visit www.butterflyhouse.org and click on "Pavers."

Events

It Came From the Creek: Aquatic Insects

Saturday, May 13, 10 a.m.

Beneath the quiet ripples of the stream lies a world few of us know about. Students (ages 8–12) should come prepared to hike and get wet and they'll learn about this underwater world.

Mother's Day Brunch

Sunday, May 14, 11 a.m. and 1 p.m.

Enjoy buffet under the pavilion on the Emerson Lakeside Terrace. Adults (ages 13 and older): $32.95. Children (ages 4–12): $17.95. Children (ages 3 and younger): free. Includes gratuity and admission.

Bug Dad on Father's Day

Sunday June 18, 11 a.m. to 2 p.m.

Do a fun craft and challenge Dad to walk in the footsteps of a bug! Wriggle like a caterpillar, hum like a mosquito, and more. For families with children ages 3–10. Included with regular admission.

Sophia M. Sachs

Butterfly House

Pavers

Pavers donated to the Butterfly House in January and February 2006.

Chloe Joan Blair
Grandma "Hank"

Mike Bray
Tori Bray

Sylvia Butler
Terry Smith

Mary R. Chambers
Dennis Chambers

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Your Neighbors

Carson Mann
Daddy and Mommy

Cheryl Ann Steiner
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Anna Lynn Wilcox
Love Mom and Dad

Joyce Glenn Williams
Fran M. Williams

Butterfly House

15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

More than a thousand live tropical butterflies are in free flight inside the glass conservatory at the Sophia M. Sachs Butterfly House. Visit native and migrating species in the outdoor gardens of the Butterfly Garden. Watch a butterfly emerge from a chrysalis right before your eyes. Whatever your age, you'll enjoy a trip to the Butterfly House where wonder takes flight!

photo by Kevin Wolf

Tributes

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding giving opportunities at the Garden, please call (314) 577-5118. You can also make a tribute gift online at our website, www.mobot.org.

January–February 2006

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Hours: 9 a.m. to 6 p.m. daily.
All proceeds benefit the Garden.

Large image: *Pacific Sunrise Macchia*
Bottom, left to right:
Roman Red Seaform Pair, Desert Yellow Macchia,
and *Lapis Persian Pair*

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Photos: Scott Mitchell Leen

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photo by JJ Lane

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Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact Fay Orr at (314) 577-0874 or visit our website, www.mobot.org.

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from January through February 28, 2006.

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Cathy and Kelly White
Mrs. Catherine Leicht

J. Arthur Wikgren
Mr. Burt Wikgren

photo by Kevin Wolf

Need a Unique Gift for Mother's or Father's Day?

Looking for something different for mom and dad this Mother's and Father's day? This year, give the gift of the Garden. Purchase a membership for mom by May 14 and she'll receive a $10 gift certificate to the Garden Gate Shop. From May 14 to June 18, buy a membership for dad and receive a free "Whole Thing" carwash from Waterway Gas and Wash, "The Best Car Washes in Town." All gift memberships will be entered into a drawing for a Clean Club Car Membership, which provides unlimited carwashes all year long and discounts on gasoline. Stop by the Membership Services Desk, call (314) 577-5118 or visit us at www.mobot.org for details.

Just for members...

Rose Evening

Tuesday, May 23, 5:30 to 8:30 p.m., Garden grounds

Enjoy live music and the beauty and fragrance of over 3,000 roses at their prime during this annual event. MBG horticulture experts answer your rose-growing questions and everyone receives a long-stemmed rose to take home. The Garden's café, Sassafras, will offer a special menu. This year only: *Glass in the Garden*, an exhibition of blown-glass art by Dale Chihuly, will be open during Rose Evening on a first-come, first-served basis. Admission is $3 for members. Timed tickets are not required, but no Bonus Bloom passes may be used at this event.

Spring Sale for Members Only

Wednesday to Sunday, May 17–21

Members enjoy 20 percent off almost everything at the Garden Gate Shop and the Little Shop Around the Corner during this five-day spring sale extravaganza. (Some Chihuly items are excluded.) You won't want to miss it, so mark your calendar today!

Brick Donor Evening

Tuesday, May 23, 5:30 to 8:30 p.m.

All recent Brick Donors are invited to attend Rose Evening and view their newly installed tribute bricks in the Members' Entry Court of the Kemper Center. Garden staff will be on hand to help everyone locate their bricks. Engraved bricks commemorate special family events and special people. All brick donations support the Missouri Botanical Garden. For more information about purchasing a tribute brick, call (314) 577-0874.

Members' Musical Evening at the Butterfly House

Friday, June 2, 5:30 to 8:30 p.m., Butterfly House

Bring a picnic supper, your lawn chairs and blankets, and enjoy a night of big band music at the Butterfly House. Dance the night away to the sounds of the Gateway City Big Band. The music begins at 7 p.m. Limited concert seating is available on a first-come, first-served basis. Arrive early and visit the exhibits at the Butterfly House.

Members' Day at the Butterfly House

Tuesday, June 6, 11 a.m., Butterfly House

Mark Deering, Collections Manager and Curator of Butterflies, invites you to learn more about photographing butterflies and flowers in nature. Focusing on composition and naturalistic posing, members will take away skills they can start using right away.

Public events...

Flower Festival at Christ Church Cathedral

Saturday and Sunday, May 6 & 7, 1210 Locust Street

Garden founder Henry Shaw, who was a member of the church, stipulated in his will that the Garden provide hundreds of flowers to decorate the cathedral annually with a sermon to be preached on "the wisdom and goodness of God as shown in the growth of flowers, fruits and other products of the vegetable kingdom." Information: (314) 231-3454 or www.christchurchcathedral.us

Annual Greenhouse Plant Sale

Thursday, May 11, 9 a.m. to 4 p.m., Horticulture greenhouse complex

Overruns of annuals grown for Garden grounds, including large, unusual stock plants used in propagation; and many perennials, tropicals, ferns, and interesting woody plants. Plants from the Flower Sunday floral installation at Christ Church Cathedral will also be available for purchase. Cash, check, or MasterCard/Visa accepted. No discounts. All proceeds benefit the Garden.

See more events on pages 10–14.

Calendar of events...

Missouri Botanical Garden Library
3 1753 00333 5996
at the GARDEN 2006

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
May 01 **Blooming now...** Rhododendron, peonies, wildflowers, bearded iris in every color...	▪ Robert Cumpston's *Sculpture from the Farm*. SNR.	02 ** Members' Day Members receive free admission to Chihuly and the Children's Garden. 9 to 11:30 a.m.	03 ▪ *Lecture:* People and Wildlife: Is There a Place for Both? by conservationist David Western. 3 p.m.	04 ▪ St. Louis Storytelling Festival: www.umsl.edu/storytelling ▪ *Chihuly Nights*. $	05 ▪ St. Louis Storytelling Festival: www.umsl.edu/storytelling	06 ▪ Flower Festival: www.christchurchcathedral.us
07 ▪ Greater St. Louis Iris Society Show ▪ Flower Festival: www.christchurchcathedral.us ▪ Classic 99's "From the Garden, Live." Ilex Trio. Noon.	08	09 *Register now for Camp MBG this summer. Call (314) 577-9506 for information.*	10	11 ▪ Horticulture Plant Sale, 9 a.m. to 4 p.m. Greenhouse. ▪ *Chihuly Nights*. $	12 ** Members' Spring Wildflowers Pre-Sale, 4-7:30 p.m. SNR.	13 ▪ Greater St. Louis Dahlia Society sale. ▪ Rose Society of Greater St. Louis mini-sale. Spring Wildflower Sale. SNR. ▪ BUZZ: It Came from the Creek—Aquatic Insects. 2 p.m. BH. $☎
Mother's Day 14 ▪ Rose Society of Greater St. Louis mini sale. ▪ Mother's Day brunch at Sassafras. $☎. Also BH. ▪ *Book signing: Orchids in the Cornfield*. 12-2 p.m. GGS.	15	16	17 ** Members' Spring Sale, 20% off. GGS.	18 ** Members' Spring Sale, 20% off. GGS. ▪ *Chihuly Nights*. $	19 ** Members' Spring Sale, 20% off. GGS.	20 ▪ Chinese Culture Days. $ ** Members' Spring Sale, 20% off. GGS. ▪ Plastic Pot Recycling. MC ▪ EarthWays Home public tours at 11 a.m., noon, 1 and 2 p.m. EC.
21 ▪ Chinese Culture Days. $ ** Members' Spring Sale, 20% off. GGS. ▪ Plastic Pot Recycling. MC ▪ EarthWays Home public tours at 11 a.m., noon, 1 and 2 p.m. EC.	22 ** Members' Event Rose Evening, 5:30 to 8:30 p.m. See page 22 Brick Donor Evening	23	24	25 ▪ *Chihuly Nights*. $	26	27 ▪ Rose Society of Greater St. Louis show. ▪ Plastic Pot Recycling. MC ▪ Book signing: *Grand Hotels of St. Louis* by Pat Treacy. 12-2 p.m. GGS.
28 ▪ Rose Society of Greater St. Louis show. ▪ Plastic Pot Recycling. MC.	*Memorial Day* 29	30	**Jun** 01 **Blooming now...** Roses, lilies, sacred lotus in the Japanese Garden...	02 ▪ *Chihuly Nights*. $	03 ** Members' Event Musical Evening at the Butterfly House, 5:30 to 8:30 p.m. BH. See page 22.	04 ▪ American Rock Garden Society sale. ▪ Bonsai Society of Greater St. Louis show and sale. ▪ Plastic Pot Recycling. MC.
04 ▪ Bonsai Society of Greater St. Louis show and sale. ▪ Missouri Orchid Society auction. 12-5 p.m. ▪ Plastic Pot Recycling. MC.	05 ▪ Camp BUGaloo, nature program for pre-schoolers. 10-11:30 a.m. BH. $☎	06 ** Members' Day Members receive free admission to Chihuly and the Children's Garden. 9 to 11:30 a.m. ** Members' Day at the Butterfly House 11 a.m. BH.	07 ▪ Whitaker Music Festival: pianist Peter Martin plays New Orleans jazz.	08 ▪ *Chihuly Nights*. $	09	10 ▪ Carnivorous Plant Society show and sale. ▪ Metropolitan St. Louis African Violet Council show and sale. ▪ Plastic Pot Recycling. MC
11 ▪ Greater St. Louis Iris Society show and sale. ▪ Metropolitan St. Louis African Violet Council show and sale. ▪ Plastic Pot Recycling. MC. ▪ Camp BUGaloo, nature program for pre-schoolers. 12:30-2 p.m. BH. $☎	12 ▪ Camp BUGaloo, nature program for pre-schoolers. 10-11:30 a.m. BH. $☎	13	*Flag Day* 14 ▪ Whitaker Music Festival: Dixieland jazz by the Saint Louis Stompers.	15 ▪ *Chihuly Nights*. $ ▪ St. Louis Water Gardening Society plant auction. 7-10 p.m.	16 ▪ BUZZ. 2 p.m. BH. $☎	17 ▪ St. Louis Horticultural Society and Hosta Society sale ▪ *Book signing: St. Louis Casa Loma Ballroom* by David Lossos. 12-2 p.m. GGS. ▪ EarthWays Home tours at 11 a.m., noon, 1, 2 p.m. EC. ▪ Plastic Pot Recycling. MC.
Father's Day 18 ▪ Explore the EarthWays Home: tours at 11 a.m., noon, 1, and 2 p.m. EC. ▪ Plastic Pot Recycling. MC. ▪ Bug Dad. 11 a.m.–2 p.m. BH.	19	20	21 ▪ Whitaker Music Festival: smooth jazz guitar music by the Tom Byrne Quartet.	22 ▪ *Chihuly Nights*.$	23	24 ▪ West County Daylily Society sale ▪ Plastic Pot Recycling. MC.
25 ▪ Plastic Pot Recycling. MC.	26 *MBG plant society contact information can be found at www.mobot.org/hort/activ/contacts.shtml*	27 ▪ King Tut trip to Chicago. Call (314) 577-9432.	28 ▪ Whitaker Music Festival: the songs of Billie Holliday by Mardra and Reggie Thomas.	29 ▪ *Chihuly Nights*. $	30	

BH = Butterfly House
CA = Cohen Amphitheater
CL = Climatron
EC = EarthWays Center
GGS = Garden Gate Shop
JG = Japanese Garden
KC = Kemper Center
LS = Little Shop Around the Corner
MC = Monsanto Center
RC = Ridgway Center
SNR = Shaw Nature Reserve
SP = Spink Pavilion
** denotes a members-only event
$ denotes an additional fee
☎ denotes reservations required

photos by Lisa Francis, Jack Jennings, Josh Monken and Kevin Wolf

Please check MBG, SNR, EC, and BH websites for more details.

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General information

Hours

The Garden is open every day except Christmas, 8:30 a.m. to 5:30 p.m. Parking is free.

General admission*

Adults age 13–64 ..... $8
Members and children 12 and under .... free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings from 9 a.m. to noon (unless special event pricing applies).

**Special events require an additional fee.*

Contacts

General Garden ..... (314) 577-5100
Catering/Rentals ..... (314) 577-0200
Education ..... (314) 577-5140
Garden Gate Shop ..... (314) 577-5137
Group Tours ..... (314) 577-0275
Membership ..... (314) 577-5118
Plant Doctor ..... (314) 577-5143

Credits

Editor: Elizabeth McNulty
Designer: Ellen Flesch
Cover photo: *Gladney Rose Garden Trellises, 2006* by Dale Chihuly. Photograph by Erin Whitson.
Back cover photo: Whitaker Music Festival 2005. Photo by Josh Monken

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The BULLETIN (ISSN 0026-6507) is published bi-monthly by the Missouri Botanical Garden, 4344 Shaw Blvd, St. Louis, MO 63110.
Periodicals postage paid at St. Louis, MO.

Postmaster: Please send address changes to: *Bulletin*, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

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The 12th Annual Whitaker Music Festival

FREE, every Wednesday evening, June 7 through August 9. This year, concerts return to their regular time—7:30 p.m.—and place—the Cohen Amphitheater. See page 14 for details.

MISSOURI BOTANICAL GARDEN
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MISSOURI BOTANICAL GARDEN

bulletin

July/August 2006 Vol. 94, No. 4

Chihuly Nights

From the President...

As soon as he opened the Missouri Botanical Garden to the public in 1859, Henry Shaw set about commissioning artwork to enhance the landscape. Statues such as *Juno* (1885) and *Victory of Science over Ignorance* (1885) reflect Shaw's Victorian tastes for classical mythology. Today, a subset of the Garden's board of trustees—the sculpture committee—guides acquisitions and donations of art for permanent display in the Garden. The Garden also hosts temporary exhibitions, such as *Chapungu* in 2001, and this year's blockbuster display of sculptures by artist Dale Chihuly, *Glass in the Garden*.

Throughout history, nature has inspired humans to create art. While art may never supercede nature, art may certainly enhance it. Writing about the *Glass in the Garden* exhibition, *St. Louis Post-Dispatch* arts critic David Bonetti elaborates: "With the glass works installed among them, the plants are even more beautiful than usual, because once you start regarding the glass aesthetically, you carry the same type of discernment over to the natural material." Regular visitors see the plants in a whole new light, and of course, many new visitors are noticing the Garden's many lovely natural features for the first time. We are grateful to our presenting sponsor Emerson for making possible this once-in-a-lifetime exhibition, and are delighted that many new visitors have also chosen to become new members. Welcome!

New visitors also continue to arrive to experience the joys of the Doris I. Schnuck Children's Garden: A Missouri Adventure. Designed to reach children at their most impressionable ages with important science and environmental lessons, the new Children's Garden will also host expanded offerings this summer and into the fall, including new exhibits, signage, and drop-in programs. We welcome especially all of our new Family Level members, who have joined as a result of the new Children's Garden. Thanks are due to the Schnuck family who donated the lead gift to establish this garden in honor of their mother during her life. Grandparents: if you haven't yet, or even if you have, I invite you to bring those special youngsters to the Garden on Grandparents' Day, September 10, for a special time.

See you on the grounds,

Peter H. Raven

Dr. Peter H. Raven, *President*

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* *deceased*

Fountain cooling the air in the Gladney Rose Garden

Hot Nights, Cool Times

The dog days of summer are here, but there's one sure relief: water. Good old H_2O is the stuff of life—a crucial component of photosynthesis in plants—and necessary for summer fun (and health!) for humans. In the 19th century, residents of St. Louis escaped the sweltering summer temperatures, by trekking north to the cooler lakes of the upper Midwest. In the BA/CE (before air-conditioned era), citizens slept in Forest and Tower Grove parks to escape stifling interiors. Why are parks cooler? The open space allows better air circulation. Water in various water features evaporates, cooling the air, much as cooling towers on big buildings do today. Plants provide natural air-conditioning too, via transpiration, or the emission of water vapor, which again evaporates, cooling the air.

The Missouri Botanical Garden can be said, then, to be home to thousands of natural air-conditioning units, as well as more than 40 water features, pools, ponds, streams, and fountains. From the rising waters of the central Latzer Fountain (graced this year by the blue ice-cube shapes of the Chihuly *Polyvitro Crystal Tower*) to the playful leaping waters of the Blanke Boxwood Garden and the new George Washington Carver Garden, to the 4.5-acre lake in the Japanese Garden, water takes center stage, or at least a co-starring role, in every garden on the grounds. The new Doris I. Schnuck Children's Garden boasts multiples: waterfall, river (complete with levee and lock-and-dam), pond, swamp, and perhaps the most popular of all, the Splash, where children are invited to jump on and play in splashing water towers.

And if you haven't seen the Chihuly *Glass in the Garden* exhibition yet, don't fear the heat: the Climatron is climate-controlled, thus the name. During the hottest days of hundred-degree St. Louis heat, the Climatron is a comparably balmy 85 degrees by day—and 64 degrees in the evening. Chihuly Nights, anyone? (See page 13 for details.)

Whether you're packing a picnic for the Whitaker Music Festival, touring Henry Shaw's Tower Grove House (air-conditioned, I might add), or admiring Nature's air-conditioners (daylilies, lilies, and lotus, among other, now in bloom), the Garden is the cool place for a sizzling summer. *–Ed.*

News | *What's Growing on at the Garden*

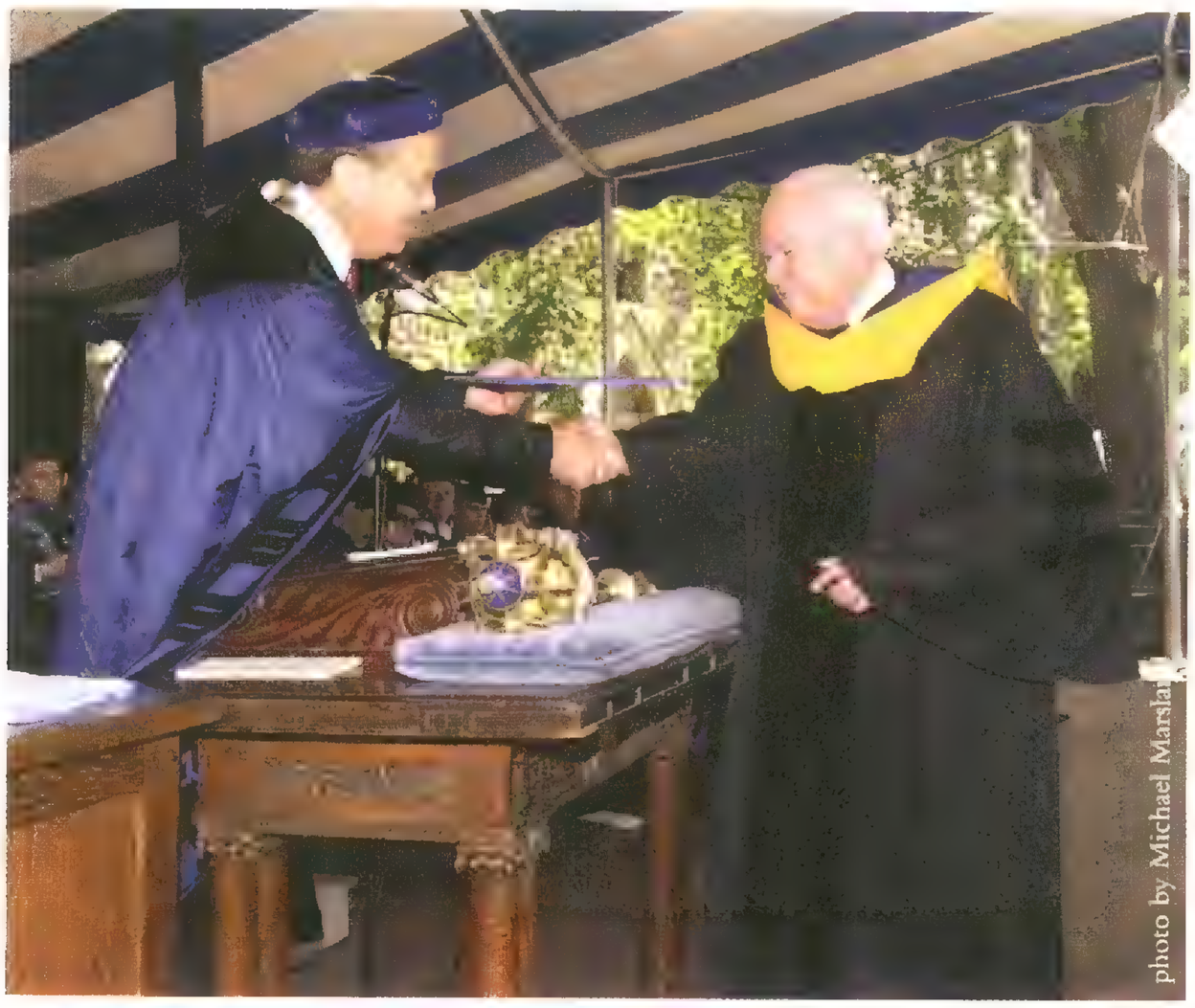
photo by Michael Marsland

Peter Raven Receives Honorary Doctorate from Yale University

Dr. Peter H. Raven received an honorary Doctor of Science degree from Yale University at its commencement ceremony on May 22. Yale President Richard C. Levin cited Raven's achievements as a world-renowned, visionary leader in conservation and biodiversity, who has transformed the Garden into a respected research institution in his 35-year tenure.

"You have transformed the oldest public garden in the United States, the Missouri Botanical Garden, into the world's leading research center for the study of tropical rain forests," the citation read. "You work tirelessly to promote science, save the rapidly disappearing forests of the tropics and their endowments of species, and call attention to the unprecedented risks of climate change."

Other honorees included: U.S. Supreme Court Justice Sandra Day O'Connor; playwright Edward Albee; architect Zaha Hadid; academics Nancy Sabin Wexler (Columbia University), Peter Brown (Princeton), and Moshe Idel (Hebrew University of Jerusalem); and businessman and civic leader John E. Pepper, Jr.

Women of Achievement: Susan Gelman and Joan Sheppard

On May 15, two members of the Garden's Members' Board were honored as St. Louis "Women of Achievement": an award recognizing ten area women annually for their outstanding volunteer contributions to the St. Louis region.

Since its inception, in 1955, the St. Louis Women of Achievement Award has been presented to women from the St. Louis area whose volunteer efforts positively impact the well-being and welfare of the region and its residents.

photos by Tom Tissey

Susan Gelman was honored in the category of Cultural Development for contributing over 25 years of energy and enthusiasm to promoting and raising funds for a variety of local arts, gardening, and music institutions.

Joan Sheppard was honored for Community Betterment for her 50 years of volunteerism to help make the Garden and her hometown area of Alton-Godfrey, Illinois more beautiful, humane, and healthy.

Above left: Mary Ann Wagner of the Suburban Journals presents award to Susan Gelman. Lower left: Dave Ervin of KMOX radio presents award to Joan Sheppard.

Welcome Rachel Hartmann

The Garden welcomes new Planned Giving Director Rachel Hartmann. Hartmann most recently worked as the Washington University Regional Director of Development, but before that, spent three years as the Garden's Corporate and Foundation Officer.

"The Garden's international research and mission brought me to the Garden the first time," says Hartmann. "[Garden President] Dr. Peter Raven and everything he stands for—conservation, sustainability. I came back to the Garden for the same reasons."

In her new job, Hartmann will work with donors who wish to create a legacy at the Garden by joining the Heritage Society. "No matter what the Heritage Society members' background may be, we have something in common: our love for the Garden!" If you are interested in learning more, call Rachel at (314) 577-9455.

Garden Improvements

Members entering the Missouri Botanical Garden recently may have noticed some changes designed to provide better service and opportunities for our visitors.

Ticket Counters: The front windows of the Ridgway Center are now ticket counters *(pictured above left)* designed to minimize the lines during this year's Chihuly attendance. Members will now receive expedited entry service at the inside counter. Come on in!

Ticketing Phone Line: Monday through Friday, 8:30 a.m. to 5 p.m., call (314) 577-5101 to book your Chihuly tickets. On nights and weekends, try the Garden's online ticketing available at www.mobot.org (click on "Tickets" and use the members' password "henryshaw").

Group Entrance: The Linnean House grounds are now a separate entrance for use by large tour groups, who might otherwise crowd the lobby during peak times. This entrance may also be used during the Garden's major events.

Dining at the Garden: Many dining options now await Garden visitors:

Sassafras. Located in Ridgway, the Garden's original café features indoor and outdoor dining, and a menu of sandwiches, salads, sides, desserts, and many other items. Open 7 days a week, 9 a.m. to 5 p.m. Lunch 11 a.m. to 3 p.m.

Fountain Grill. Located outside on Spoehrer Plaza, this grill serves hotdogs, chicken sandwiches, chips, cookies, and beverages during peak times, weather permitting. Open seasonally on Fridays, Saturdays, and Sundays, 11 a.m. to 3 p.m.

Terrace Café. (pictured above right). Located at the Kemper Center for Home Gardening, this new dining location is convenient for visitors to the new Doris I. Schnuck Children's Garden and serves sandwiches, hot dogs, chips, and drinks. Open daily through October, 10 a.m. to 3 p.m.

Parking: When the main lot is busy, remember that free parking is available on fenced lots at the corner of Shaw and Vandeventer, less than two blocks west of the Garden.

In memoriam

Samuel C. Davis, Jr.
1938-2006

Missouri Botanical Garden Trustee Samuel C. Davis, Jr. died Wednesday, May 31, 2006, at Barnes-Jewish Hospital of a pulmonary embolism. He was 68.

A native St. Louisan, Mr. Davis was the great nephew of the late Dwight Davis, for whom tennis's Davis Cup is named. Mr. Davis himself excelled at tennis, squash, golf, fly fishing, and duck hunting. Mr. Davis spent the majority of his career as an investment banker at A.G. Edwards before retiring in 1994.

Following in the footsteps of his grandfather, who served during founder Henry Shaw's life, and his father, who served from 1960 to 1977, Mr. Davis joined the Garden's Board of Trustees in 1998. He was recently active on the Shaw Nature Reserve Advisory Board.

He is survived by his wife, Alma DeBasio Davis; four sons: Andrew O. Davis of Boston, and John W. Davis, Christopher B. Davis, and Jon C. Thomas II, all of Ladue; daughter Jennifer T. Parker of Dallas; and a grandson.

photo courtesy Clipper Cruise Li

Members' Travel: Kiwi Adventure

January 2007: Explore New Zealand during the austral summer, venturing off the tourist path to experience North and South Islands' breathtaking bays, abundant wildlife, spectacular national parks and nature reserves, and rich Maori culture during a cruise aboard the yachtlike *Clipper Odyssey* from January 31 to February 12, 2007. Prices start from $5,985, excluding air.

Events

whitaker
MUSIC FESTIVAL

Whitaker Music Festival 2006 Continues

Wednesdays at 7:30 p.m.

July 5 Bel Airs, *classic R&B*

July 12 Vargas featuring Dawn Weber, *swingin' rock originals*

July 19 Flying Mules, *Missouri folk and bluegrass*

July 26 Rogers, Nienhaus and Crawford, *folk-rock*

August 2 Autumn's Child, *world music for the 21st century*

August 9 Raven Moon, *eclectic mix of acoustic music*

The 12th annual Whitaker Music Festival continues for another six weeks this summer. Pack a picnic, or purchase snacks here, and claim your spot on the Cohen Amphitheater lawn and spend the evening listening to live music in one of the city's most beautiful venues. (Please no pets, barbecue grills, or smoking.) In case of rain, check the Garden's website at www.mobot.org or tune into radio station WSIE, 88.7 FM, for cancellation information.

These concerts are supported by a generous grant from the Whitaker Foundation, which supports the arts and parks in St. Louis to promote common heritage, while celebrating diversity and encouraging the vitality of the community.

July is Henry Shaw Month!

Every year the Garden celebrates founder Henry Shaw's birthday (July 24) with free admission to the Missouri Botanical Garden and to Shaw's Victorian country home, Tower Grove House. This year, following the grand re-opening of Tower Grove House after a two-year closure for renovation and reinterpretation, the Garden is offering free admission to Tower Grove House during the entire month of July. See the rooms where Shaw lived and dreamed his plans for what would become one of the foremost research gardens of the world. Step inside and learn about the history of the Garden and Mr. Shaw. Open 11 a.m. to 3 p.m. Tuesday through Friday, 10 a.m. to 4 p.m. Saturday, and 1 to 4 p.m. Sunday. Tours are offered on the hour. The house is closed on Mondays, but will be open Monday, July 24, in honor of Shaw's birthday.

Garden Teatime

Tuesday, July 18, 1 p.m.

Bring your children or grandchildren and join the Tower Grove Auxiliary for a tea-time adventure with light snacks in Spink Pavilion and a special activity to follow in the Doris I. Schuck Children's Garden: A Missouri Adventure. The Children's Garden features all kinds of climbing and splish-splashing fun, so be sure kids dress casually to better play and cool off in the Garden. Guests receive a 20 percent discount coupon for the Garden Gate Shop. Tickets are $15 per person and include admission to the Children's Garden. Call (314) 577-9570 for reservations by Friday, July 14.

Save the Date: Grandparents Day!

Sunday, September 10, 1 to 3 p.m.

For members only: grandparents, parents, children, and grandchildren are invited for an afternoon of fun to celebrate this special day.
Call (314) 577-9570 for details.

Sumo's Back

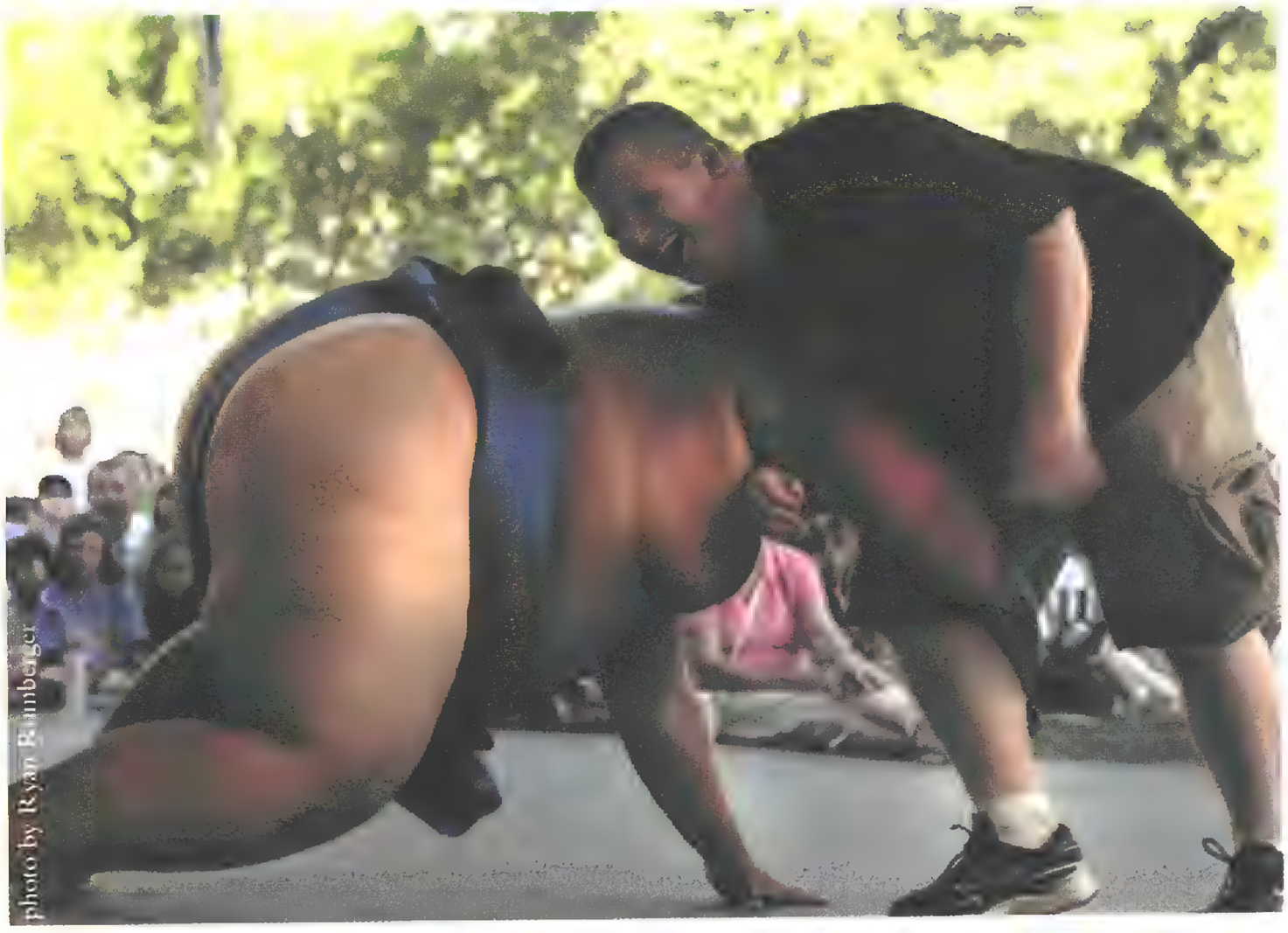

photo by Ryan Bamberger

and Bigger than Ever!

Japanese Festival 2006

Saturday to Monday, September 2, 3, and 4

$10 adults, $7 seniors, $3 Garden members, $3 children ages 3–12, free for members' children (12 and under)

Back by popular demand, sumo returns to the Japanese Festival. You won't want to miss these demonstration *torikumi*, or bouts. Retired high-ranking professional sumo wrestlers Sunahama and Koryu will demonstrate various sumo fighting postures and techniques, then face each other as opponents in the ring. Japanese Festival 2006 will also present a wide variety of cultural opportunities, including taiko drumming, tea ceremonies, anime screenings, the Candyman, and candlelight tours of the Japanese Garden. To download the complete schedule, visit www.mobot.org.

For members only...

Tour the Doris I. Schnuck Children's Garden

Monday, July 10, 11 a.m.

Learn about this exciting new two-acre garden that transports young and old back to Missouri of the 1800s. A tour of the garden follows a presentation in the Shoenberg Auditorium by the manager of the Children's Garden, Dr. Katie Belisle-Iffrig.

Tropical Treasures

Friday, August 11, 11 a.m.

It's hot, hot, hot outside and it's time to learn how tropical plants can make your garden a thing of beauty. Chris Kelley, owner of Cottage Garden Nursery and local tropical plant expert, will be with us to share some of her top picks. Chris will show us how to make annual beds and containers hold up to the long, hot St. Louis summers.

Celebrate Membership Weekend

Friday-Sunday, August 18–20

The Garden has teamed up with fellow St. Louis institutions to reward our members with a Celebrate Membership Weekend, when membership privileges will be accepted reciprocally at the five cultural institutions making up the Metropolitan Zoo-Museum District: the Missouri Botanical Garden, the Missouri History Museum, the Saint Louis Art Museum, the Saint Louis Science Center, and the Saint Louis Zoo. To participate, simply present your Garden membership card and you'll receive a variety of benefits, including: discounted or free entry, discounts on food and beverages and in the gift shops, and more! So eat lunch overlooking Forest Park, go on safari, tour a special exhibition, or catch a star show. Like what you see? You'll be able to purchase a membership at very special rates in support of our cultural institutions.

Research

photos courtesy MBG Research

Above: a new species in the genus Themistoclesia *discovered by Garden researchers in the Santa Barbara region of Peru.*

Below: the Garden's research headquarters in St. Louis, the Monsanto Center, home to a renowned herbarium and library.

Research Globally, Impact Locally:
Garden Research Benefits St. Louis and the Planet

by Dr. James Miller, Manager of the William L. Brown Center

The Missouri Botanical Garden is home to one of the world's most active botanical research programs, a program which aims to collect, catalog, and understand the diversity of plants that exist in the world. The Garden's herbarium, with more than six million preserved plant specimens, is one of the half-dozen largest plant collections in the world. The Garden's library is among the foremost botanical reference collections internationally. The Garden hosts TROPICOS, the world's largest online botanical database. This large international effort and the Garden's many outstanding resources help bring recognition to St. Louis as a center for plant research and conservation, attracting both life-sciences talent and capital.

In addition to the commercial benefit large research institutions like the Garden bring to the region, the Garden's efforts are also important to St. Louis in order to help us all, scientists and nonscientists alike, understand and protect biological diversity and the natural resources that are critical for maintaining global ecosystems. The recent *Stewards of the Earth* campaign reflects the Garden's commitment to preserving the biological diversity upon which humans depend for food, medicine, and quality of life. Garden researchers work to discover and understand how plants may be useful and how they can be used in ways that does not endanger their existence. Through partnerships with the National Institutes of Health, industry, and academic research organizations, Garden botanists work to discover new pharmaceutical, agricultural, and nutritional products that will benefit all humankind.

Only with a comprehensive understanding of how many plants exist, where they occur, and their patterns of abundance, can we rationally plan to conserve them. Garden botanists work around the globe to conserve the world's flora, but did you know Garden researchers are also involved closer to home, taking lead responsibility for the protection of endangered plant species in the midwestern United States and currently working on an inventory of plant species in Missouri State Parks? Garden staff partner with local organizations to help inform development efforts so that growth in the St. Louis region can be conducted in an ecologically sensitive manner. Programs of the Center for Plant Conservation, based at the Garden, aim to protect locally endangered plant species, like the running buffalo clover (*Trifolium stoloniferum*) and pondberry (*Lindera mellisifolia*).

In the depths of the tropics or in your neighborhood park, wherever Garden botanists conduct research, the results benefit us all.

Your Children's Garden Homework

Play!

by Dr. Katie Belisle-Iffrig, Children's Garden Manager

To watch children at play in the Doris I. Schnuck Children's Garden: A Missouri Adventure is to watch them hard at work. Far from being a detriment or a distraction, research now shows that play is absolutely essential for healthy child development. Physical agility and problem-solving are honed as children scramble up the Climbing Rock in Mimi's Village. Confidence and increased self-esteem are the rewards waiting at the "summit." Social skills such as cooperation, coordination, and team work are required for the successful maneuvering of the Locks and Dams in the Children's Garden river.

While research on the importance of play has been around for decades; science is just beginning to recognize how important contact with the outdoors is for healthy human development. The floodgates have opened and reports have poured in on the therapeutic value of nature.

In his revolutionary new book, *Last Child in the Woods: Saving our Children from Nature Deficit Disorder*, Richard Louv coins the term "nature-deficit disorder" to describe the human costs of alienation from nature. The condition includes symptoms such as diminished use of the senses, attention difficulties, and higher rates of physical and emotional disorders.

In an effort to combat nature deficit disorder, the National Wildlife Federation recommends that children participate in at least one "green hour" per day engaging in play in the outdoors. To promote this concept, the Garden will be offering **Great Green Adventures**, drop-in activities on the second and fourth Saturdays of the month, starting this September. I invite our members to spend a green hour in the Doris I. Schnuck Children's Garden with the significant children in their lives. You, the children, and the earth will all be the healthier for it.

Play is the highest phase of child development.... It gives joy, freedom, contentment, inner and outer rest, peace with the world."

Friedrich Froebel, kindergarten inventor

National Youth Garden Symposium

Thursday to Saturday, July 27–29

The American Horticultural Society presents the National Children & Youth Garden Symposium at the Missouri Botanical Garden. Richard Louv, nationally acclaimed author of *Last Child in the Woods: Saving Our Children from Nature-Deficit Disorder*, gives the keynote address on July 27. Symposium offers educational sessions, garden explorations, and networking. Open to anyone with an interest in youth gardening programs including horticulturists, educators, and home schoolers. Advance registration required. For information, visit www.ahs.org.

Volunteers

From left (top): Judy Horan, Extra Service Hours; Rosemary Armbruster, Lifetime Achievement; Dr. Raven; Marie Schmitz, Special Achievement; Gary Hartman, Commitment Award. Bottom row: Tower Grove House Historical Committee members Polly Coxe, Isabelle Morris, Ellen Jones, Lil Metcalfe, Laura Meyer, and Mary Jane Kirtz. Not pictured: Jodi Sudin, Commitment Award.

Thank You, Volunteers!

Last year, the number of volunteers at the Garden increased to 1,372. Volunteers contributed 105,843 hours of service, the equivalent of 54 additional full-time employees. Most volunteers work in the Horticulture and Education divisions, but volunteers help out in almost every area. The Garden could not operate at current levels of international renown and community outreach without the help of these dedicated individuals and groups.

On Monday, May 15, the Garden celebrated this remarkably capable volunteer work force at the annual Volunteer Appreciation Evening, where guests were honored and thanked for 10, 20, and 30 years of service, and five unique individuals were singled out for special awards. The Garden is deeply grateful to these special award recipients, and to the whole volunteer corps. Thanks for another great year!

Make a Difference

Members of the Garden have already helped make a difference through their financial contribution, but you can make a difference again when you contribute your time as a volunteer. A wide variety of volunteer opportunities is available, everything from hands-on horticulture, to instruction, to media and library work. For more information, please contact Jackie Juras at (314) 577-5187.

Volunteer Instructors Needed

Do you enjoy the excitement of sharing knowledge with young minds? Volunteer instructors teach prewritten classes to school groups visiting the Garden. Training to become a Volunteer instructor includes a mentorship program with experienced instructors. Instructors are asked to teach two hours per week and attend a monthly meeting. For more information, call Rebecca Young at (314) 577-9549.

From left: Carol Agatstein, Sue Butler, Pat Adams (Docent Trainer), Pat Beuckman, Dan Litsch, Lisa Wallis, Rebecca Young (Youth Program Supervisor), Virginia Noe (Docent Trainer), Arlene Nazzoli, and Jackie Bainter.

Congrats, Docents!

This spring, the Garden celebrated another graduating class of docents. Garden docents lead thematic walking tours of the Garden for all ages, focusing on school groups. They are also responsible for leading the daily public tour at 1 p.m. To become a docent, candidates must attend five six-hour training sessions before beginning to serve as a guide, and another 15 classes once actively giving tours. Interested persons are invited to submit their names now so they can learn more before the October training. For more information, call Rebecca Young at (314) 577-9549.

glass in the garden

CHIHULY *at the*

MISSOURI BOTANICAL GARDEN

through Oct. 31, 2006

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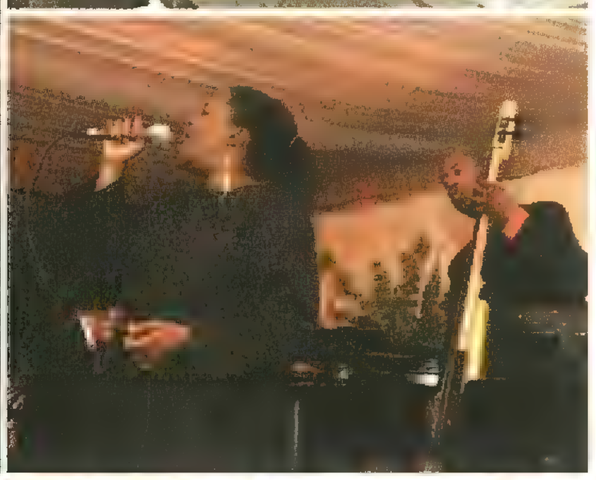

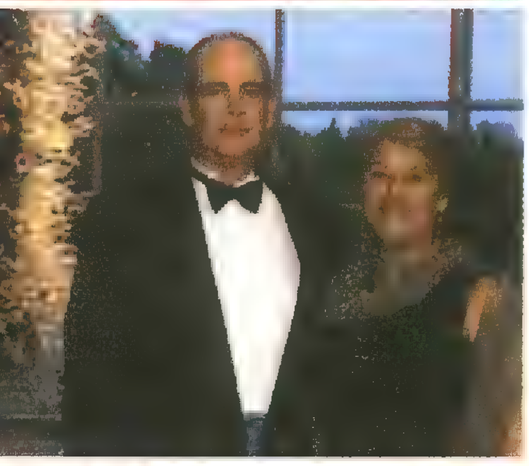

A Touch of Glass Gala

On Saturday, April 29, 2006, the toast of St. Louis arrived to celebrate the opening of *Glass in the Garden*. Spirits undampened by the wet weather, the black-tie crowd enjoyed celebratory beverages, tours of the show, and dinner with musical performance by Grammy-nominated jazz singer Carla Cook.

photos by Kristi Foster, Josh Monken, and Erin Whitson

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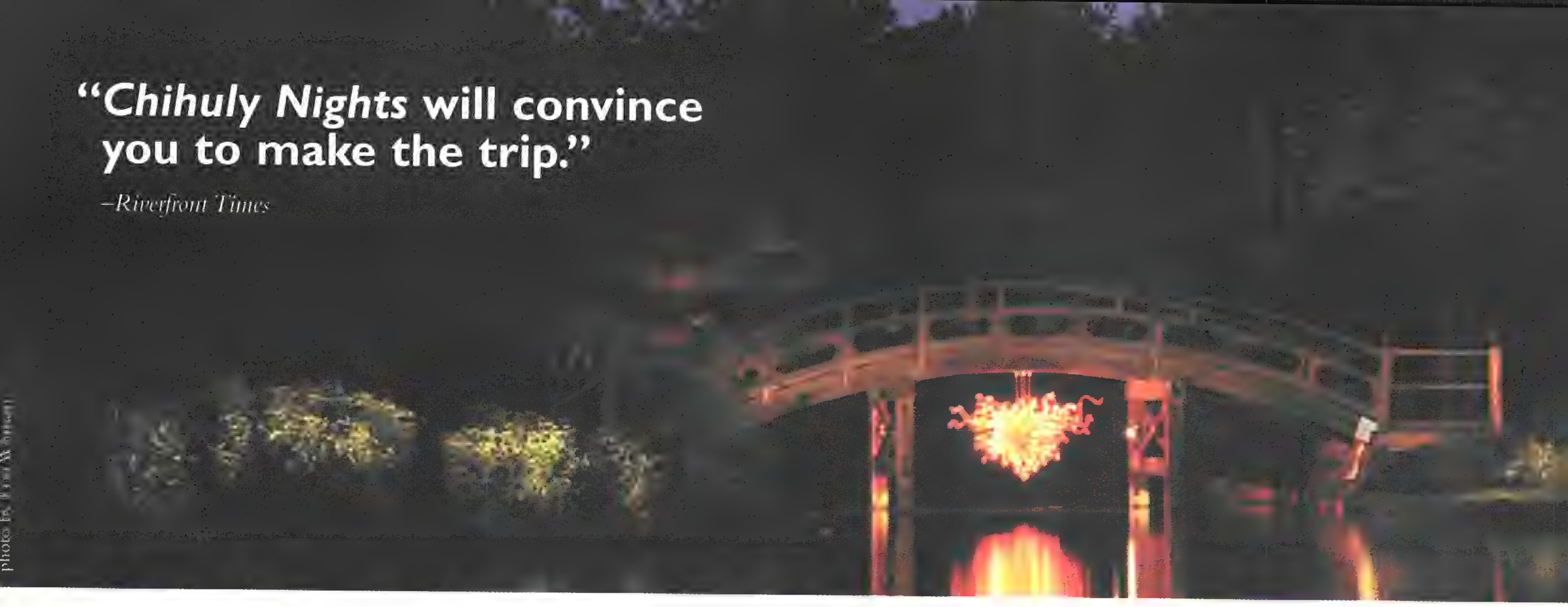


Glass in the Garden: Chihuly at the Missouri Botanical Garden

Now through October 31

Hours: 8:30 to 5:30 p.m. daily. Last entry is at 5 p.m.

Admission: Monday through Thursday: $10-14; Friday through Sunday $12-16 (includes Garden admission); Garden members and children 12 and under: $3

Chihuly Nights: $15 ($10 for Garden members)

photo by Erin Whitson

A Visit from the Artist

On Thursday, April 27, renowned artist Dale Chihuly visited the Missouri Botanical Garden to review and put final touches on his *Glass in the Garden* exhibition. After a flurry of last minute adjustments, Chihuly met with the press, then signed books for adoring fans for over two hours. He proclaimed the Climatron "the most interesting greenhouse we've worked in," and credited its unique structure for the profusion of glass at every turn.

Members are Special!

Free Members' Mornings

Chihuly is free for you and a guest on the first Tuesday of every month, 9 to 11:30 a.m. Members also receive free admission to the Children's Garden at this time.

Members' Discounts

Admission to the Garden and Chihuly costs $10-16. Members pay only $3. Admission to Chihuly Nights is $15. Members pay only $10.

Speedy Service for Members

Don't wait in line! New outdoor ticket counters serve the public, but members may enter the air-conditioned Ridgway Center for quick service.

Members' Advance Tickets

Members may purchase timed tickets online 90 days in advance, compared to 30 days for the general public. Visit www.mobot.org and use the members' code: "henryshaw" to receive your members' discount.

Tips for Members

- Least crowded time to visit? Monday, Tuesday, or Thursday morning.
- Don't fear the heat: the Climatron is climate-controlled all year long (thus the name). During the hottest days of hundred-degree St. Louis heat, the Climatron is a comparably balmy 85 degrees by day—and 64 degrees in the evening!
- Dress for the weather. Tickets are good rain or shine.
- Allow plenty of time prior to your ticket time to park, be admitted, and approach the exhibition.
- Free parking available two blocks west in the lots at the corner of Shaw and Vandeventer.

Chihuly Nights

With gorgeous glass elegantly lit in the beautiful setting of the Garden at twilight, *Chihuly Nights* have quickly become the must-do event for Thursdays. After several sold-out evenings, the hours have now been extended from 6 until 11 p.m. To ensure that Garden members enjoy the best experience, we offer the following tips:

* The line to enter the Climatron is shortest before 7 p.m.
* Peak Climatron admission (and longest wait) is between 8:30 and 9:30 p.m.
* The Garden is open until 11 p.m., but last admission to the Climatron is 10:30 p.m.
* Don't forget the Temperate House, where the neon sculptures are found and the exhibition continues.
* Most romantic view: the red Chihuly chandelier suspended from the Drum Bridge in the Japanese Garden. Well worth the short walk to see this stunning creation lit at night.
* The Garden is now a tobacco-free campus. Smoking is not allowed anywhere, indoors or outside.

Chris Hill of Third Degree Glass Factory demonstrates glassblowing technique at the Garden's hot shop on a Saturday. The hot shop is also open for Chihuly Nights.

The Hot Shop

So you think St. Louis is hot in the summer? The glassblowers at work in the Garden know what hot really is.

"The main furnace is 2,000 degrees Fahrenheit and holds 40 pounds of clear glass, which the blowers take out and shape," says Chris Hill of Third Degree Glass Factory. "The glass needs to stay between 1,400 and 1,800 degrees to be workable, so we reheat the glass while working in the glory hole at 2,300 degrees."

With the heat mostly contained, curious visitors have still been eager to grab a seat on the stands beside the Linnean House during the two weekly demos to watch the fascinating process. Because the work requires hand dexterity, most glass blowers don't wear much in the way of protective gear. "Sometimes you'll wear a sleeve on your arm," says Hill, "But all of our tools are made of stainless steel, which transfers heat very, very slowly."

Founded in 2001 by Jim McKelvey and Doug Auer, Third Degree Glass Factory is a nonprofit dedicated to promoting the glass arts and St. Louis's premier glassblowing facility.

Experience the power and beauty of live glassblowing presented by Third Degree Glass Factory at the Hot Shop next to the Linnean House every Thursday during *Chihuly Nights*, starting at 6 p.m., and every Saturday at 10 a.m.

How is Glass Blown?

Although solid at room temperature, when heated to a temperature of 2,000 degrees Fahrenheit—about as hot as a volcano—glass has the consistency of honey. It can be pressed, molded, slumped, or (most interestingly) shaped by hand on a blowpipe.

To blow glass, glassworkers mix sand, soda, and lime in a melting pot. This mixture is called a batch. Once heated to 2,000 degrees, a hollow metal rod, called a blowpipe, is dipped to get a clump, or gather, of glass.

Next, the glass is shaped using calipers or small glass-working tools, cut with shears, and rolled or flattened out over a bench. The glass is colored using very condensed color rods, powders, or frit (small pieces of glass) to achieve different effects.

The glassblower twirls the blowpipe while blowing into it. The hot air makes the clump grow into a bubble. While the glass is being shaped, it has to be reheated in a furnace, called a glory hole, or with a blowtorch. If it cools too quickly, it will break. When the piece is finished, the glassworker puts it into an annealing oven where it is gradually cooled over several hours to several days.

What to do in your garden now...

clip and save

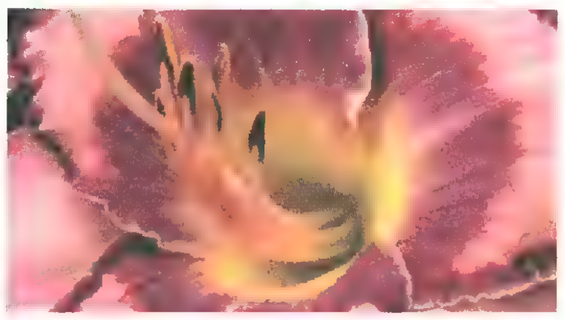


photo by Kevin Wolf

July

all month

- ❑ Deadhead spent perennials/annuals.
- ❑ Remove infected leaves from roses.
- ❑ Pick up fallen leaves.
- ❑ Continue fungicidal sprays as needed. Fertilize container plants every 2 weeks with a water-soluble solution.
- ❑ Newly planted trees and shrubs should continue to be watered thoroughly once a week.
- ❑ Maintain a 2–3 inch layer of mulch around tomatoes and peppers to prevent blossom-end rot.
- ❑ Cover grape clusters loosely with paper sacks to provide some protection from marauding birds.
- ❑ Water grass deeply at least once a week. Early morning irrigation allows turf to dry before nightfall and reduces the chance of disease.

week 1

- ❑ Apply no fertilizers to trees and shrubs after July 4.
- ❑ Plant zinnia seed by July 4 for late bloom in annual border.
- ❑ Hot, dry weather is ideal for spider mite development. Look for leaves speckled above and yellow below and evergreen needles that appear dull gray-green to yellow or brown.
- ❑ To minimize insect damage to squash and cucumber plants, cover them with lightweight floating row covers. Remove covers once plants flower.
- ❑ Prune out and destroy old fruiting canes of raspberries after harvest is complete. Blackberries are ripening now.

week 2

- ❑ Prune climbing and rambler roses after bloom.
- ❑ Dig potatoes when the tops die. Plant fall potatoes by the 15th.

week 3

- ❑ Powdery mildew is unsightly on lilacs, but rarely harmful. Shrubs grown in full sun are less prone to this disease.
- ❑ Cut semi-hardwood off spring flowering shrubs now. Summer pruning of shade trees can be done now.
- ❑ Harvest onions and garlic when the tops turn brown.
- ❑ Keep cucumbers well watered. Drought conditions will cause bitterness.
- ❑ Sweet corn is ripe when the silks turn brown.
- ❑ Monitor lawns for newly hatched white grubs. If damage is occurring, apply appropriate controls.

week 4

- ❑ Divide bearded iris now.
- ❑ For the fall garden, sow seeds of collards, kale, sweet corn, and summer squash as earlier crops are harvested. Sow seeds of carrots, beets, turnips, and winter radish for fall harvest.
- ❑ Early peach varieties and thornless blackberries ripen now.

For additional information on plant care and gardening:

- *visit the Wm. T. Kemper Center for Home Gardening*
- *call the Horticultural Answer Service, Monday through Friday, 9 a.m. to noon, at (314) 577-5143.*
- *check out the Gardening Help section at www.mobot.org*

photo by Kevin Wolf

August

all month

- ❑ Deadhead annuals/perennials as needed. Annuals may appear leggy and worn now. These can be cut back hard and fertilized to produce a new flush of bloom.
- ❑ Continue spraying roses that are susceptible to black spot and other fungus diseases.
- ❑ Compost or till under residues from harvested crops. Watch for fall webworm activity now.
- ❑ Prop up branches of fruit trees that are threatening to break under the weight of a heavy crop.

week 1

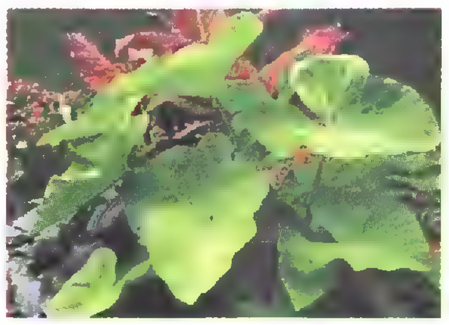
- ❑ Feed fall-blooming perennials (mums, asters) for the last time.
- ❑ Divide bearded iris. Discard old center sections and borer damaged parts. Replant so tops of rhizomes are just above ground level.
- ❑ Prune hedges to shape for the last time this season.
- ❑ Broccoli, cabbage, and cauliflower transplants should be set out now for the fall garden.

week 2

- ❑ Roses should receive no further nitrogen fertilizer after August 15.
- ❑ If you want to grow big dahlia flowers, keep side shoots pinched off and plants watered and fertilized regularly.
- ❑ Evergreens can be planted or transplanted now to ensure good rooting before winter arrives. Water the plant and the planting site several days before moving.
- ❑ Cure onions in a warm, dry place for two weeks before storing. Sow seeds of beans, beets, spinach, and turnips now for the fall garden.
- ❑ Protect ripening fruits from birds by covering plants with netting.
- ❑ Fall-bearing red raspberries are ripening now.
- ❑ Apply insecticides now for grub control on lawns being damaged by their activity. Zoysia lawns can receive their final fertilizer application now.

week 3

- ❑ Begin planting lettuce and radishes for fall now.
- ❑ Watch for fall webworm activity.
- ❑ Cultivate strawberries.
- ❑ Lawns scheduled for renovation this fall should be killed now. Have soil tested to determine fertility needs.
- ❑ Dormant lawns should be soaked to encourage strong fall growth.



www.mobot.org/gardenghelp/plantfinder

Plant of Merit

Xanthosoma 'Lime Ginger'

This tropical is noted for producing huge chartreuse to lime green arrow-shaped leaves (to 18" long) on plants typically growing 3–4' tall. Thrives in heat/humidity with constant moisture. Plant in rich, deep, moist but well-drained soils in part shade. Leaves bleach in full sun. Plant directly in ground or in large containers. In St. Louis, dig up rhizomes in fall before first frost for overwintering indoors in a cool, dry place.

Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org

Garden at large...

From above left: Butterfly farmer in Costa Rica looking for eggs; Pupae arrive at butterfly house; and Sailor, Neptis hylas.

Butterfly Farms

by Mark Deering, Curator of Butterflies

Many visitors to the Sophia M. Sachs Butterfly House ask us "Where do you get your butterflies?" People are often surprised when we tell them about the farms around the world that specialize in raising tropical butterflies. The Butterfly House purchases about 800 to 1,000 pupae per week from six different farms located in Costa Rica, Ecuador, Surinam, Malaysia, and Thailand.

These tropical butterfly farms are started by collecting native female butterflies and placing them into large, screened enclosures that contain native host plants (caterpillar food plants). Eggs are collected daily and the hatching caterpillars are raised in protected enclosures to ensure predators and parasites do not get to the larvae. Once the caterpillars have formed their chrysalides, they are packed into containers and shipped to butterfly exhibits around the world—but this is only the beginning of their journey.

The United States Department of Agriculture, Animal and Plant Health Inspection Service, division of Plant Protection and Quarantine regulates the importation and interstate movement of all potential plant pests. The Butterfly House was designed and built to contain these insects, and the USDA inspected and approved the building before issuing our permit for importation. The packages of pupae enter the country and are inspected at the port before continuing to our door, a process that takes three to five days. During this process our pupae are riding safe and sound in layers of soft cotton. Once at the Butterfly House, the pupae are inspected to ensure their health and then placed into the emergence case, where in time they emerge as adult butterflies. We rotate the stock in the emergence case daily, removing exuvia (cast chrysalis skins) and adding new chrysalides.

The environmental benefits of butterfly farming are tangible. Butterfly farms provide the farmers a renewable alternative to slash and burn agriculture, cattle ranching, or other development in some of the world's most biodiverse tropical regions. With over 100 butterfly displays in the United States alone, and over 300 worldwide, there is an estimated butterfly farm trade of almost $10 million. Over 16 million visitors enter butterfly exhibits annually to learn about critical animal-plant relationships and what they can do to help these beautiful animals.

Sophia M. Sachs
Butterfly House

Tributes and Pavers donated to the Butterfly House in March and April 2006.

Tributes

In memory of

Dorothy M. Geile
Barbara and Herman Taute

Lee Jablonow
Shirley and Jules Snitzer

Kerry Kuehner
Evelyn and Eric Newman

Pavers

Mike Bray
Greg Barr
Parker Bray
Carson Bray
Aiden Bray
Michael Monfort

Henry Compton
Melissa Lastarria

Steve Finke
Donetta J. Hollis
William Mittelstadt

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David Glastetter

Grandma Gloria
Cal, Luke and Gracie

Betty Grandorff
Dale Grandorff

Cindy Ludemann
David Glastetter

Laura Plank
Thomas E. Plank

John Valentine
Kim and Dorothy Martin

Sophia Zenk
Tom M. Kutchan

Butterfly House

15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

More than a thousand live tropical butterflies are in free flight inside the glass conservatory at the Sophia M. Sachs Butterfly House. Visit native and migrating species in the outdoor gardens of the Butterfly Garden. Watch a butterfly emerge from a chrysalis right before your eyes. Whatever your age, you'll enjoy a trip to the Butterfly House where wonder takes flight!

To figure out how solar power works, students analyze EarthWays Center's solar oven, then design and test their own ovens.

Environmental Education: Going Solar

Within the Garden's Education Division, the EarthWays Center team offers St. Louis area youth not only opportunities to learn about the natural world and human impacts on natural resources, but also the tools needed to change their own impact on natural phenomena. This environmental education (or EE) can take place outdoors, or in a classroom with activities relating to the natural world. Either way, curiosity is valued as learning's spark. Students are encouraged to question how the world works around them.

For example, students in EarthWays Center's "Schools Going Solar" program (sponsored by the Missouri Department of Natural Resources and AmerenUE) research information on the most commonly used renewable and non-renewable sources of energy in small groups. Equipped with solid background on energy production in today's society, students focus on solar power by addressing the question: Does Missouri have a climate suitable for using solar power to meet our energy needs? Students experiment with solar ovens and design and function of a photovoltaic (solar panel) array installed at the school.

"I know EE is working," says EE specialist Julia Feder, one of EarthWays Center's Education Coordinators, "when I hear a student declare, 'I've done the research and looked at all the options, and I've decided to turn off the TV—or lights or computer—when I leave the room because I know what it takes to power that item.'"

A "Schools Going Solar" class enacts the processes involved when a natural resource, coal, is used to make electricity – in The Coal Chain!

Students in the "Schools Going Solar" program address issues posed by required and open-ended questions, and present findings on their energy source to the whole class. Each student then writes a letter to the President recommending an energy plan based on these findings.

"Students get experience with problem-solving tools they can use to make choices about their effect on the natural world," says Feder. "They learn there is often not one 'right' answer, but that you have to weigh information and thoughtfully consider the possible results of your actions."

Learn More About EE!

Friday, July 28, 7 p.m.
A free public lecture by Richard Louv, author of the EE bestseller, *Last Child In The Woods*, at the Saint Louis Zoo. See page 9 for more information on Louv.

November 3–5
Educators are invited to participate in the Missouri Environmental Education Association's annual "EE Campus," in Columbia, MO, and to visit www.meea.org.

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St. Louis, MO 63108
phone (314) 577-0220
fax (314) 577-0298
www.earthwayscenter.org

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Garden at large...

Shaw Nature Reserve

Above: blooms in the Whitmire Wildflower Garden. Right: Blanton and Peg Whitmire with Scott Woodbury, the new Whitmire Family Curator at the Reserve.

photo by Patty Arnold

Curator of Native Plant Horticulture

Henry Shaw left the Garden with an adequate endowment for 1889, but as the Garden's programs have grown through the years to include the Shaw Nature Reserve, the EarthWays Center, and the Butterfly House, so have the financial needs. The continued success of the Garden's family of attractions depends upon a superb staff, and endowed positions help to assure that the positions required to carry out our mission are permanently supported. This June, the Garden was pleased to announce the newly endowed position of Whitmire Family Curator of Native Plant Horticulture, the first at the Shaw Nature Reserve. Made possible by a generous donation of Peg and Blanton Whitmire, the position is filled by long-time staffer Scott Woodbury.

A graduate of the University of Wisconsin-Madison, Scott Woodbury has been the horticulture supervisor at Shaw Nature Reserve, where he has been developing the Whitmire Wildflower Garden, for 15 years. The wildflower garden is a five-acre demonstration garden of native Missouri plant communities including prairie, savanna, glade, woodland, and wetland, with over 800 Missouri native plant species on display.

The Shaw Nature Reserve actively promotes landscaping with native plants and the creation of native habitat areas, and the Whitmire Wildflower Garden provides a model for both homeowners and professional landscapers. Woodbury has been instrumental in running the Reserve's annual Wildflower Sale each May and in launching the new Native Plant School, a popular collaborative program with Grow Native! He is also writing a series of native landscaping guides available on the Shaw Nature Reserve website: www.shawnature.org.

"I am thrilled to be part of a talented team of horticulturists and volunteers who have shaped and nurtured the Whitmire Wildflower Garden from its very beginning," says Woodbury. "This endowment means that the Garden and its supporting educational components will continue to be available to our visiting public for many, many years to come."

SHAW NATURE RESERVE

Hwy. 100 & 44 (exit 253)
Gray Summit, MO 63039
phone: (636) 451-3512
www.shawnature.org

Founded in 1925, the Shaw Nature Reserve encompasses 2,400 acres of tall-grass prairie, forests and glades, woodlands and wetlands, and 14 miles of hiking trails.

Native Plant School

Sign up now for one or several of these mostly outdoor learning sessions in the Whitmire Wildflower Garden, covering various aspects of native home landscaping and prairie/savanna/wetland reestablishment.

All classes 1 to 4 p.m.
$12 ($8 for members).
Call to RSVP: (636) 451-3512

Prairie Reestablishment,
Thursday, August 10

Whitmire Wildflower Garden Open House,
Saturday, September 16

Prairie Reestablishment,
Thursday, October 12

Native Small Flowering Trees,
Thursday, November 9

Tributes

March–April 2006

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding giving opportunities at the Garden, please call (314) 577-0805. You can also make a tribute gift online at our website, www.mobot.org.

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By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call the Development Office at (314) 577-9455 for further information and a complimentary brochure. Visit our website at www.mobot.org. Click on Membership, then Planned Giving Guide.

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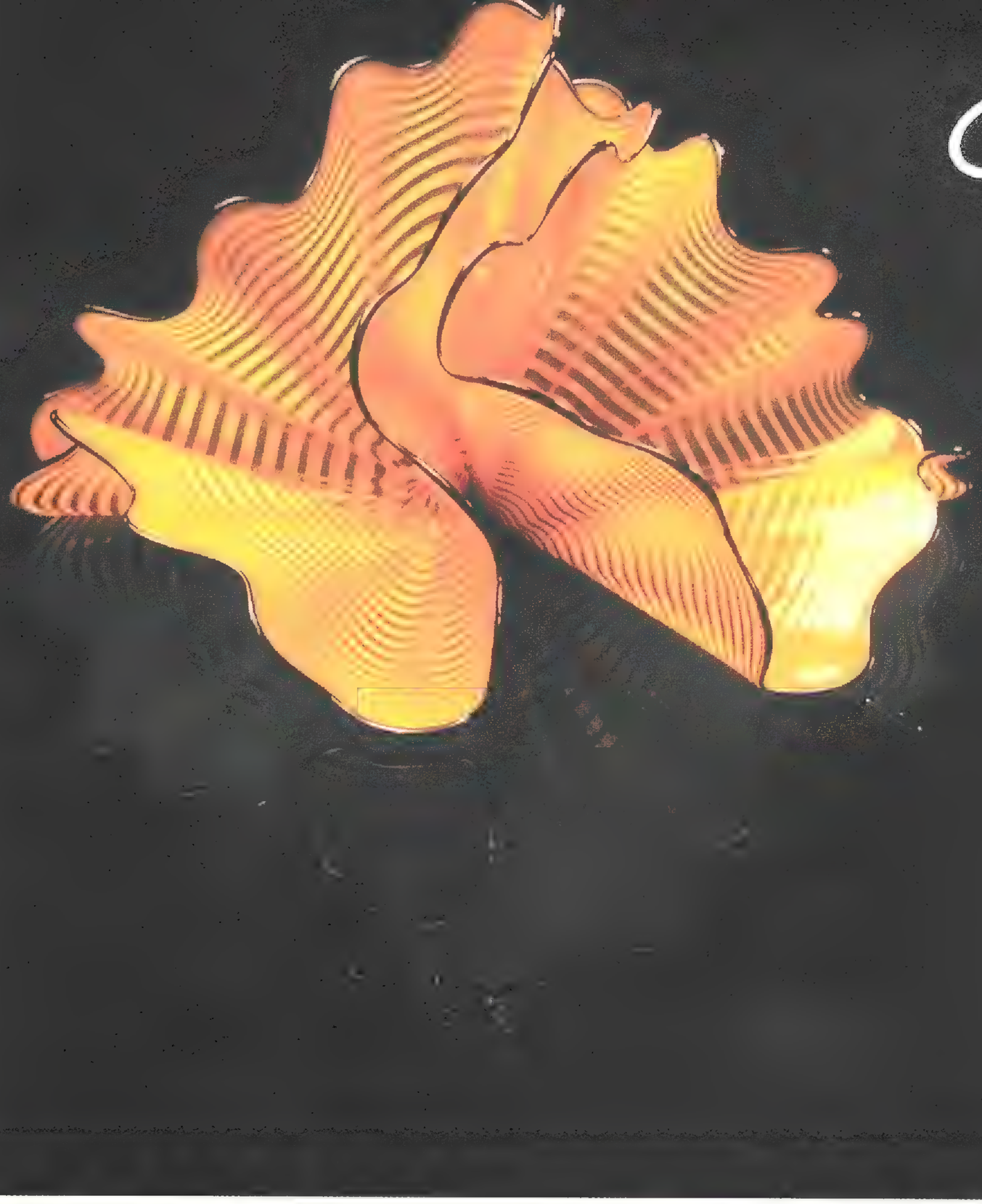

Chihuly

During *Glass in the Garden: Chihuly at the Missouri Botanical Garden*, shop for Studio Edition glass and other Chihuly merchandise at the Garden Gate Shop or, after your visit, at the temporary *Glass in the Garden* Shop at the Climatron.

Garden Gate Shop

4344 Shaw Boulevard • (314) 577-5137
Hours: 9 a.m. to 6 p.m. daily.
All proceeds benefit the Garden.

Large image: *Radiant Persian Pair*

2003 Portland Press Studio Edition by Dale Chihuly
Photo by: Teresa Rishel

Photo by JJ Lane

Members' Entry Court

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact Fay Orr at (314) 577-0874 or visit our website, www.mobot.org.

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from March through April 2006.

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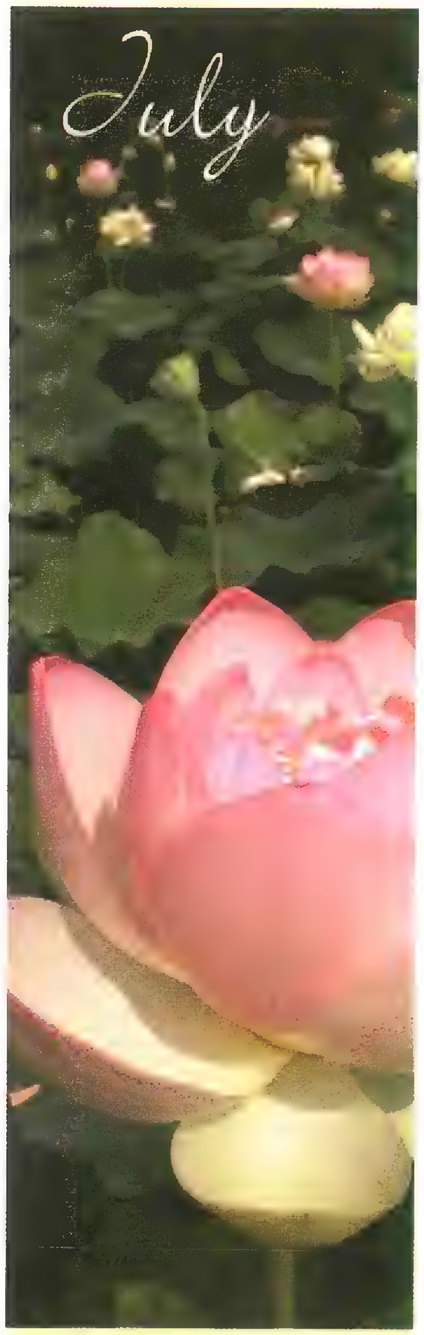
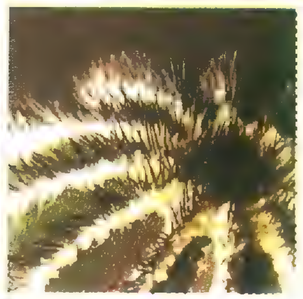
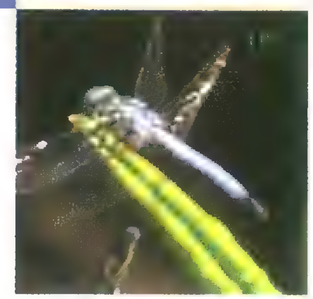


Blooming now...
Sacred lotus, roses in full bloom, rainbows of daylilies...

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01
02	**Henry Shaw Cactus Society** **64th Annual Show & Sale** July 15–23 Don't miss seeing hundreds of award-winning cacti and succulent plants in over 150 classes at this memorable event. Then hit the sales tables to choose from thousands of specimens and starter plants. Prices start at $1. For more information, visit www.hscactus.org.	03	04	05	06	07
		Independence Day	** Members' Day Members receive free admission to Chihuly and the Children's Garden. 9 to 11:30 a.m. whitaker MUSIC FESTIVAL 7:30 p.m. Bel Airs	Chihuly light 6–11 p.m. $		
09	** Members' Day Tour of the Children's Garden. 11 a.m. ■ Members receive 20% off in the GGS and LS *(excluding Chihuly merchandise)* ■ Camp BUGaloo 10 a.m. BH $☎	10	11	12	13	14
			whitaker MUSIC FESTIVAL 7:30 p.m. Vargas	Chihuly light 6–11 p.m. $		15 ■ July 15–23, Henry Shaw Cactus Society show and sale ■ EarthWays Tours, 11 a.m., noon, 1 and 2 p.m. EC
16 ■ Henry Shaw Cactus Society show and sale ■ EarthWays Tours, 11 a.m., noon, 1 and 2 p.m. EC ■ Camp BUGaloo, 12:30 p.m. BH $☎	17 ■ Henry Shaw Cactus Society show and sale, now through July 23. ■ Camp BUGaloo, 10 a.m. BH $☎	18 ■ Henry Shaw Cactus Society show and sale, now through July 23. ■ Tower Grove Teatime, 1 p.m., $ ☎ See page 6.	19	20		22 ■ Henry Shaw Cactus Society show and sale ■ BUZZ: Bug Hunt Challenge. 11 a.m., 12:30 p.m., 2 p.m. $☎ BH
23	24	25	whitaker MUSIC FESTIVAL 7:30 p.m. Flying Mules	Chihuly light 6–11 p.m. $	28	29
■ Henry Shaw Cactus Society show and sale	■ Henry Shaw's 206th birthday. See p. 6.		whitaker MUSIC FESTIVAL 7:30 p.m. Rogers, Nienhaus, and Crawford	Chihuly light 6–11 p.m. $ ■ National Children & Youth Garden Symposium. See p. 9.	■ National Children & Youth Garden Symposium. See p. 9. ■ Richard Louv at the St. Louis Zoo. 7 p.m.	■ National Children & Youth Garden Symposium. See p. 9.
30	31					

Blooming now...
Water lilies in the reflecting pools, tropical shrubs, roses, daylilies, summer annuals and perennials...

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01	02	03		05 ■ Missouri Botanical Garden Daylily Society sale
06	07	** Members' Day Members receive free admission to Chihuly and the Children's Garden. 9 to 11:30 a.m.	whitaker MUSIC FESTIVAL 7:30 p.m. Autumn's Child	Chihuly Nights 6–11 p.m. $	10	11
12	13 ■ Missouri Botanical Garden Daylily Society sale ■ Orchid Society of Greater St. Louis plant auction, noon to 5 p.m.	14 ■ Camp BUGaloo, 10 a.m. BH $☎	whitaker MUSIC FESTIVAL 7:30 p.m. Raven Moon	Chihuly Nights 6–11 p.m. $	17	18 ** Members' Day Tropical Plants with Chris Kelly, 11 a.m. ■ Members receive 20% off in the GGS and LS *(excluding Chihuly merchandise)*
19 ■ MBG/Greater St. Louis Iris Society sale ■ Camp BUGaloo, 12:30 p.m. BH $☎	20 ■ Camp BUGaloo 10 a.m. BH $☎	21 	22 Garden evening hours until 8 p.m.	23 Chihuly Nights 6–11 p.m. $	24	25 ■ MBG/Greater St. Louis Iris Society sale ■ BUZZ: Bug Scene Investigation, ages 12 and older, BH $☎
26 ■ EarthWays Tours, 11 a.m., noon, 1 and 2 p.m., EC ■ Greater St. Louis Iris Society plant auction, noon to 6 p.m.	27	28 	29 Garden evening hours until 8 p.m.	30 Chihuly Nights 6–11 p.m. $	31 	Coming... Japanese Festival when the sumo are BACK! Sep. 2–4 ■ Greater St. Louis Daylily Society sale ■ EarthWays Tours, 11 a.m., noon, 1 and 2 p.m., EC ■ BUZZ: Bug Scene Investigation, ages 8–11, BH $☎

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Missouri Botanical Garden Library

BH	= Butterfly House	MC	= Monsanto Center
CA	= Cohen Amphitheater	RC	= Ridgway Center
CL	= Climatron	SNR	= Shaw Nature Reserve
EC	= EarthWays Center	SP	= Spink Pavilion
GGS	= Garden Gate Shop	**	denotes a members-only event
JG	= Japanese Garden	$	denotes an additional fee
KC	= Kemper Center	☎	denotes reservations required
LS	= Little Shop Around the Corner		

photos by Michael Eastman, Josh Monken, Erin Whitson, and Kevin Wolf

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General information

Hours

The Garden is open every day except Christmas, 8:30 a.m. to 5:30 p.m. Parking is free.

General admission*

Adults age 13–64 ..... $8
Members and children 12 and under .... free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings from 8:30 a.m. to noon (unless special event pricing applies).

**Special events require an additional fee.*

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Garden Gate Shop ..... (314) 577-5137
Group Tours ..... (314) 577-0275
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Plant Doctor ..... (314) 577-5143

Credits

Editor: Elizabeth McNulty
Designer: Ellen Flesch
Cover photo: *Walla Walla Onions, 2006* by Dale Chihuly. Photo by Erin Whitson.
Back cover photo: Bon odori at the Japanese Festival. Photo by Kevin Wolf

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The BULLETIN (ISSN 0026-6507) is published bi-monthly by the Missouri Botanical Garden, 4344 Shaw Blvd, St. Louis, MO 63110.
Periodicals postage paid at St. Louis, MO.

Postmaster: Please send address changes to:
Bulletin, Missouri Botanical Garden,
P.O. Box 299, St. Louis, MO 63166-0299.

Botanical Garden Subdistrict of the Metropolitan Zoological Park and Museum District:
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Printed on 100% post-consumer recycled paper manufactured with 100% wind power.

2006 Japanese Festival

Bon odori dancing, taiko drumming, tea ceremonies, candlelight tours, and SUMO are back for this year's Japanese Festival. See page 7 for details.

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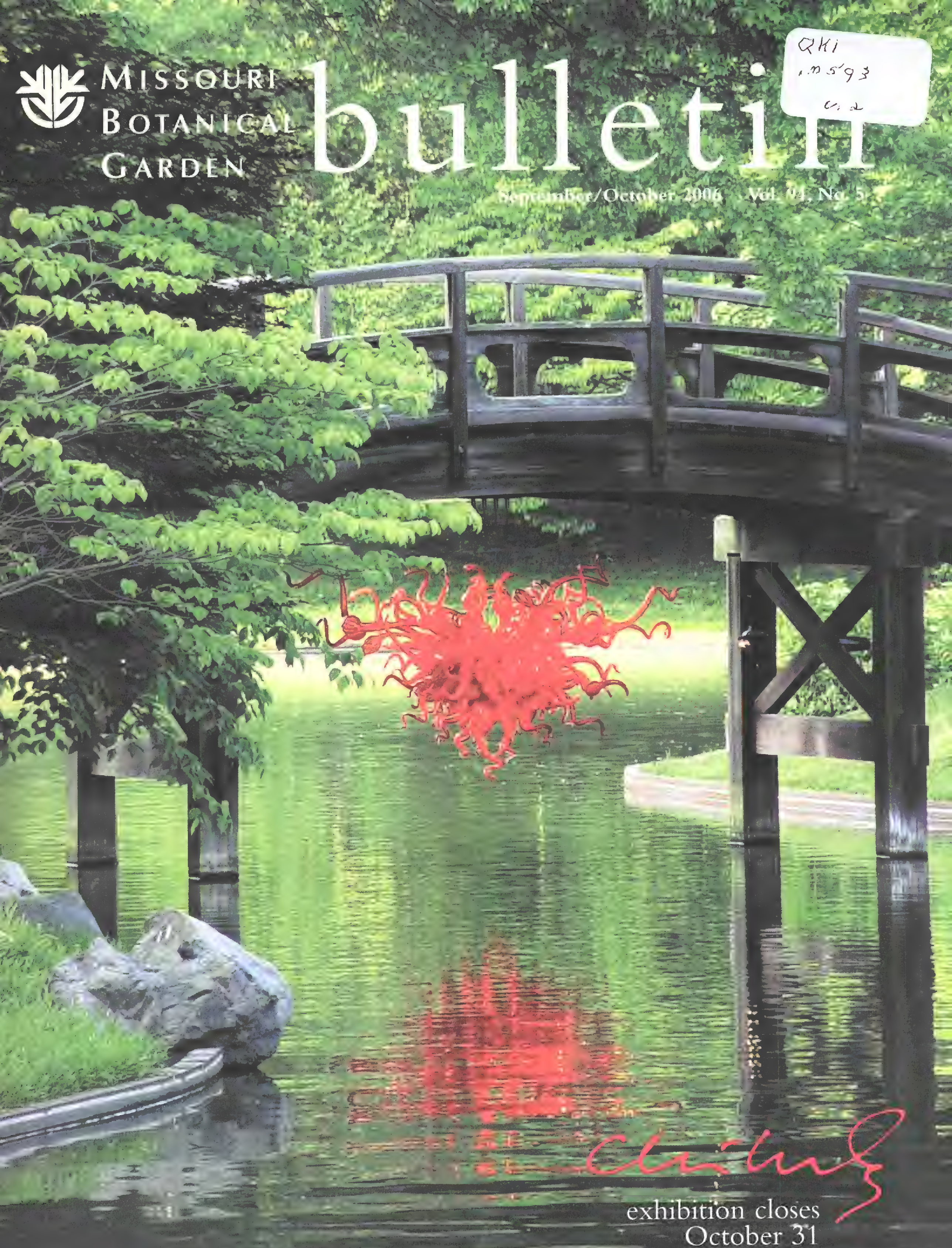
Missouri Botanical Garden

bulletin

September/October 2006 Vol. 94, No. 5



From the President...

The autumnal beauty of the Garden creates a wonderful setting for programs, galas, and events, and this year, the Garden is harvesting a bumper crop. Invitations will soon be sent for the upper level members' annual Henry Shaw Society dinner, the Directors' Associates dinner, and the Heritage Society breakfast. Tickets are now available for the first-ever Brewmasters' Gala, sponsored by Anheuser-Busch, scheduled for October 21, which will present fine food and drink in a fall theme.

Sumo returns to the Garden at this year's Japanese Festival by popular demand, and we anticipate a rollicking Best of Missouri Market, with over 30 new vendors. The Shaw Nature Reserve presents both Prairie Day *and* Harvest Festival. The Sophia M. Sachs Butterfly House holds their annual fundraiser for education programs this September, aptly titled "Monarchs, Moonlight, and Music."

As we enter the final months of the *Glass in the Garden* exhibition, sponsored by Emerson, we are especially pleased to offer visitors another evening of *Chihuly Nights.* Tickets have routinely sold out for this Thursday night event, prompting us to offer another night—Mondays—starting September 18. As the days grow shorter, the night lighting of *Glass in the Garden* will start ever earlier, extending the hours per evening of dark, nighttime viewing. We invite you to see the Garden, and the glass, in a whole new light. While you're here, be sure to visit the new Ottoman Garden, the first of its kind in the nation.

On a final note, after more than 12 years of service, the Garden's Vice President of Institutional Advancement has decided to move on. Patty Arnold has worked tirelessly to advance the Garden's status locally, nationally, and around the globe. We are very grateful for her contributions and wish her all the best.

See you on the grounds,

Peter H. Raven

Dr. Peter H. Raven, *President*

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* *deceased*

A fountain in the Kemper Center, framed by the gourd arbor.

Great Gourds

Every fall the Garden is ablaze with gorgeous color—the variety of the trees, the beds and beds of chrysanthemums, and this year, the Chihuly sculptures. While you're strolling the grounds appreciating the season, stop by the William T. Kemper Center for Home Gardening display gardens to get a glimpse of one of the less known treasures of the Garden: the gourd arbor.

The gourd arbor is a series of arched trellises over the path between the Fragrance Garden and the goose fountain. For the past five years, the arbor has been planted with Dipper gourds. The fast-growing, heat-loving vines create a thick leafy shade tunnel, a welcome respite during the worst of the end-of-summer heat. Then, in September, the vines produce a tangle of heavy fruits which dangle precariously over the heads of those daring enough to walk below. (Kemper Center staff and volunteers monitor the gourd growth to avoid accidents.)

Lagenaria siceraria is the scientific name given all hard-shelled gourds. They are members of the Cucurbitaceae, or Cucumber family, and are known by a variety of names: bottle gourd, birdhouse gourd, trumpet gourd, calabash gourd, white-flowered gourd, dipper gourd, etc.

The hard, waterproof shell of the mature fruit can be used for a variety of implements: bowls, water jugs, cups, ladles, pipes, musical instruments (shakers, sitar), floats for fishnets, and ornamental or ceremonial objects, such as masks. A popular and recurring class in the Kemper Center's Adult Education program is gourd craft. This fall, enrolled students will create a decorative serving dish from a hard-shelled gourd.

Bottle gourds are thought to be one of the oldest known cultivated crops, and one of the only crops cultivated in pre-Columbian times in both the Old and New World. Originating in Africa, the gourds spread out in ancient times around the globe, perhaps by floating—their tough skin protects the seeds inside, even in salt water. They are found in archaeological digs from Egypt to Thailand to Peru, some dating to 10,000 BC.

The Garden is rightly renowned for the beautiful autumn colors, but among unusual features, the gourd arbor is another standout. Don't miss it this September. *–Ed.*

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News

What's growing on at the Garden

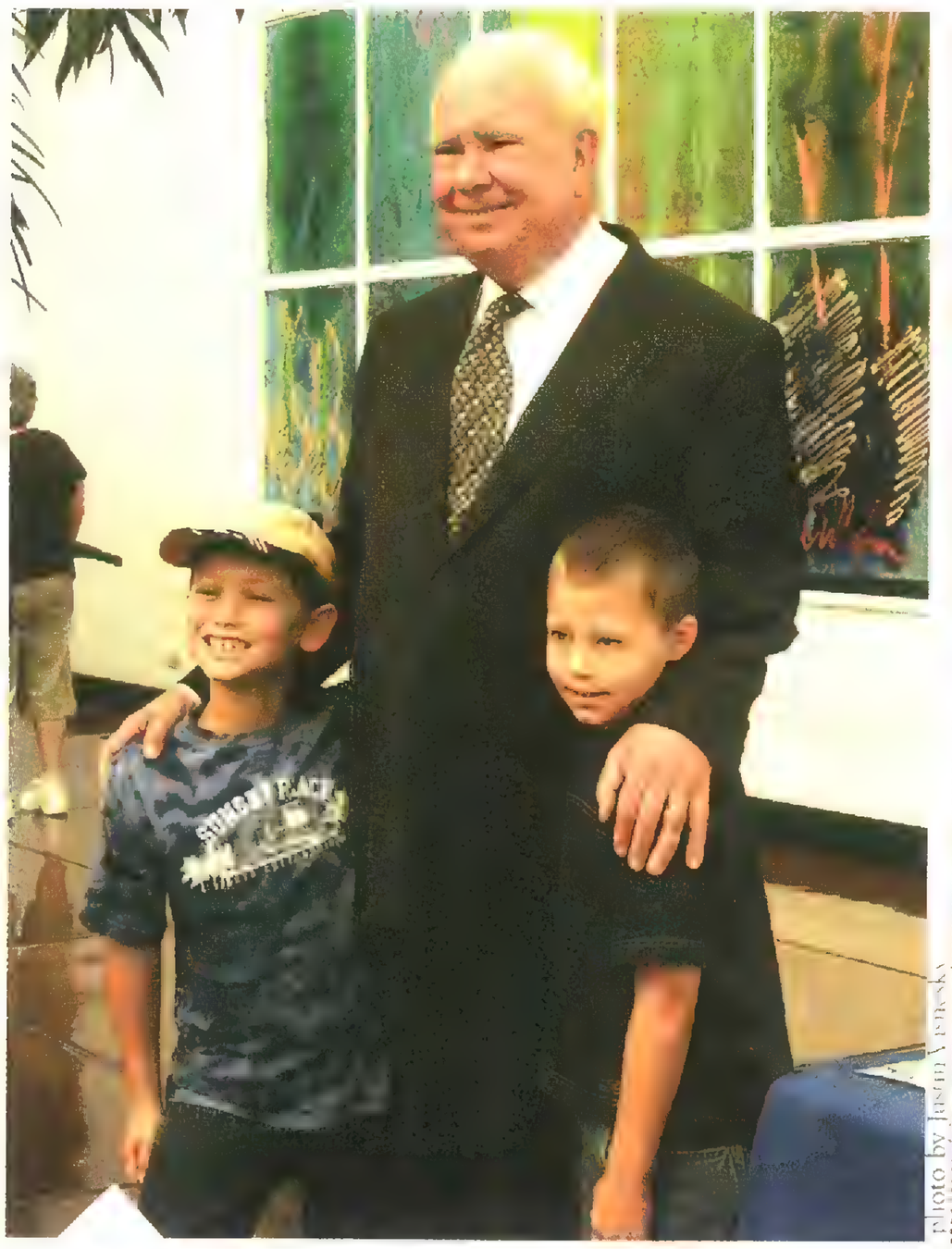


photo by Jason Arnosky

Here's to 35 Years!

On August 1, 1971, a 35-year-old former Stanford University botany professor took over as the Missouri Botanical Garden's new director and the George Engelmann Professor of Botany at Washington University. This year, Dr. Peter H. Raven celebrated his 35th year as president of the Missouri Botanical Garden. When he joined the Garden, there was neither a Japanese Garden nor a Kemper Center for Home Gardening, no Grigg Nanjing Friendship (Chinese) Garden, Boxwood Garden, Strassenfest German Garden, nor tram system. All of these were built during his tenure, among many other features and accomplishments. In celebration of Dr. Raven's 35th anniversary, visitors enjoyed 35-cent admission on August 15 and were invited to sign a congratulatory banner and enter a free drawing to win a personal 35-minute tour of the Garden with Dr. Raven on his private cart. "Peter's Pick" (chicken salad on wheat) was the special in Sassafras all month.

Patty Arnold Moves On

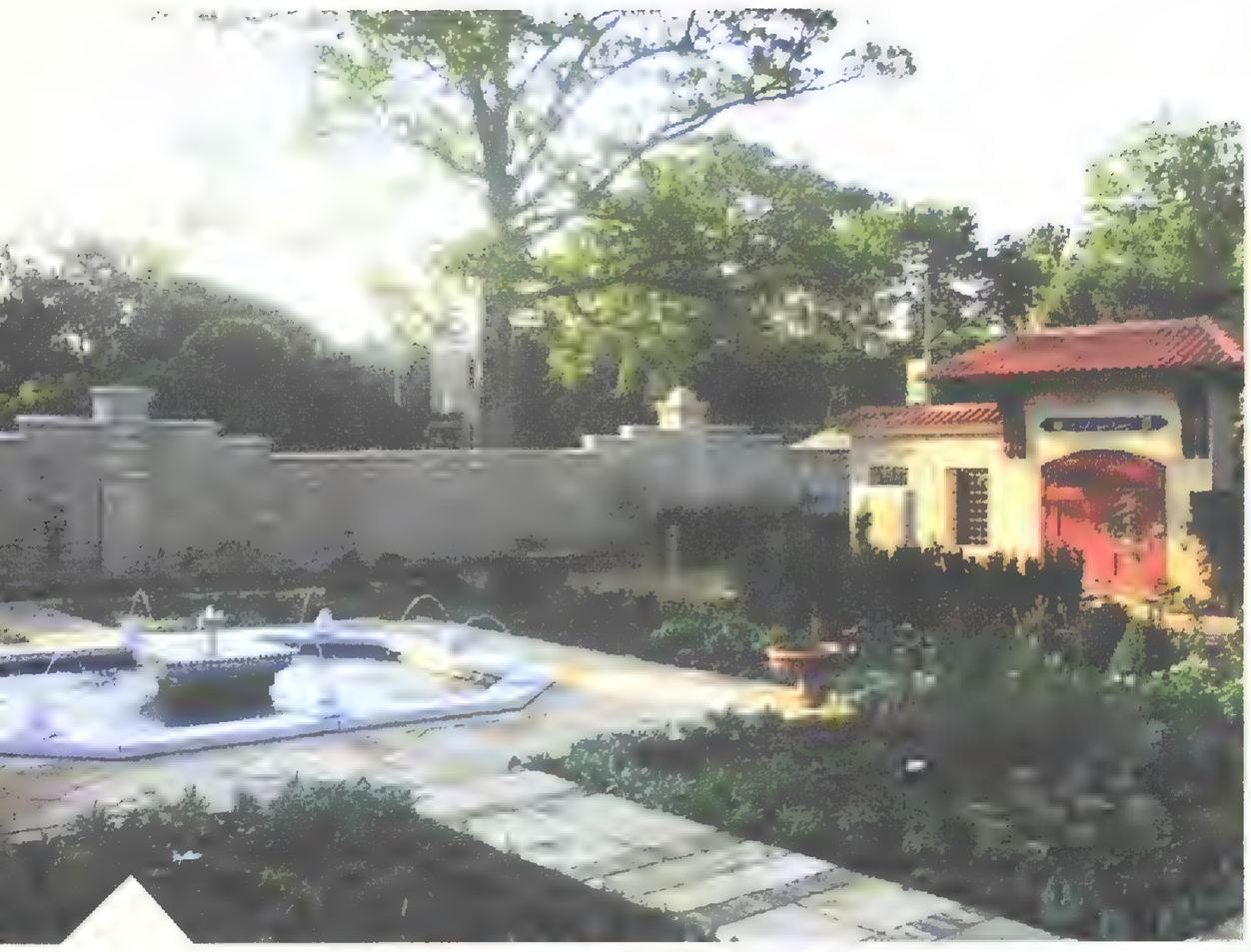
photo by Jason Arnosky

Patricia "Patty" Arnold, the Garden's Vice President for Institutional Advancement, left the Garden this July. Patty served a decade as Director of Development and Membership, growing these programs to their current impressive levels. She departs at the conclusion of the highly successful *Stewards of the Earth* campaign which raised $76 million, surpassing the goal of $71 million. "Working for the Missouri Botanical Garden and with Dr. Raven has been an incredibly fulfilling experience," says Patty. Patty joined the Garden in 1994 and had previously volunteered on the Members' Board. "Patty has contributed a great deal to the development of the Garden during her many years of service, notably with her staff leadership role in the *Stewards of the Earth* campaign," says Dr. Peter H. Raven, President of the Garden. "We will miss Patty and outstanding ability to work with us all."

photo by Jason Arnosky

July Storm Damage

On the evening of Wednesday, July 19, a cluster of thunderstorms produced winds of up to 80 mph, creating widespread damage across the St. Louis area. At the Garden, damage was campus-wide, but the most extensive destruction was sustained in the south end: nearly half of all trees lost stood in the Japanese Garden. On Thursday, Garden staff was hard at work to clear debris, remove hazards, and begin the slow work of restoring the landscape. In all, over 50 trees were lost; another 45 trees were damaged and require maintenance; another 11 were recommended for complete removal. Among the more noticeable trees lost were four white pines on Spoehrer Plaza and two large pin oaks near the Japanese Garden restroom. Clean up and repair work was still ongoing at press time.



Introducing the Ottoman Garden

On Tuesday, August 15, the Missouri Botanical Garden dedicated the new Ottoman Garden, the first of its kind in the U.S. This unique quarter-acre walled garden, located northeast of the historic Linnean House conservatory, is modeled on the luxurious "Gardens of Paradise" popular in what is now Turkey in the 17th and 18th centuries. The new garden provides a feast for the senses, with various Turkish fountains and artifacts to provide a strong sense of authenticity. Oleanders lining the walkway lead to the central focal point, a shallow pool of water, the havuz. Authentic plantings include citrus, climbing fragrant roses, classic Turkish tulips and drifts of bulbs, aromatic herbs, pomegranate, and lilac. An inscription in the Osmanli script on the blue tile above the arched doorway at the south entrance honors the garden's benefactor, the late Edward L. Bakewell, Jr.

New Trustees

On June 21, the Garden's board of trustees elected four new members.

David Hollo

A senior vice president in investments at A.G. Edwards, Hollo became involved with the Garden in 2002. Hollo has served on the boards of the Churchill School, the Humane Society of Missouri, and the St. Louis Children's Hospital.

Paula M. Keinath *(emeritus)*

Active on many boards in St. Louis, including the Central Institute for the Deaf, the St. Louis Mercantile Library Association, and the Friends Board of the Art Museum, Keinath has been a member of the Garden since 1973.

Roy Pfautch *(emeritus)*

A public affairs and governmental relationships consultant, Pfautch has been involved with the Garden since 1979. In 2004 he made a pledge to name the Bertha Berghoefer Pfautch Glade in the English Woodland Garden.

Barrett Toan

Former chairman of Express Scripts until his retirement in 2005, Toan joined the Garden in 1986. He is a director of Sigma-Aldrich Corporation and serves on the boards of Express Scripts, Kenyon College, and Mentor St. Louis, and has previously served as a trustee of the Missouri Historical Society.

ECO-ACT Turns 25

Since it began in 1981, the ECO-ACT Environmental Leadership Program has been a life-changing catalyst for nearly 1,500 St. Louis-area high school students. The program, based on participatory, hands-on, "learning through teaching," continues to be enjoyed by students today. A recent in-depth study of the program found that 90 percent of program graduates consider ECO-ACT to be one of the most valuable experiences of their high school career. ECO-ACT elicits rave reviews from teachers as well. ECO-ACT alumni, teachers, and friends are encouraged to visit and update contact information on the program's website in order to receive information on upcoming anniversary celebration events. www.mobot.org/education/ecoact. To honor ECO-ACT's 25th anniversary, a fund has been established to ensure that this vital program can thrive for another 25 years. To find out more, call (314) 577-9482.

Events

Japanese Festival

September 2, 3, 4

East meets Midwest at Japanese Festival

For three days every Labor Day weekend, the Garden presents a kaleidoscope of Japanese culture with martial arts, thunderous taiko drummers, bon odori dancers, ikebana flower arranging, street performers, and back by popular demand: sumo!

Retired professional sumo wrestlers Koryu and Sunahama demonstrate their ancient sport and invite a few audience members to have a go. One-hour sessions each day will include practice bouts, training techniques, and a glimpse into the lifestyle of the massive sumotori.

Browse the festival marketplace for anime comic books, bonsai plants, fashion accessories, and other Japanese merchandise. Snack on sushi, green tea ice cream, stir-fried yakisoba noodles, or okonomiyaki vegetable pancakes in the food court.

Seiwa-en, the 14-acre Japanese "garden of pure, clear harmony and peace" is the site of the opening ceremony, guided tours, tea ceremonies, and candlelight walks after sundown. Download the complete schedule at the Garden's website: www.mobot.org.

Hours:

Saturday and Sunday, September 2 and 3, 10 a.m. to 8 p.m with candlelight walks and anime screening ending at 10 p.m.

Monday, September 4, 10 a.m. to 5 p.m.

Admission:

$10 adults; $7 seniors (65+); $3 Garden members and children ages 3-12; free for members' children (12 and under).

Added attractions:

The Doris I. Schnuck Children's Garden will be open throughout the festival from 9 a.m. to 5 p.m.; admission is $3 for children, adults are free. Tickets to see Chihuly's *Glass in the Garden* in the Climatron may be purchased on site, online at www.mobot.org, or by calling (314) 577-5152 during weekday business hours. Exhibition admission is $8 all three days; hours are 8:30 a.m. to 8:30 p.m.

Festival Theme: Ine, or Rice

In Japanese, *ine* refers to a maturing rice plant with grains so heavy that its stalk begins to bend, as happens in September at the moment just before harvest. Rice is fundamental not only to the cuisine of Japan, but the entire culture. Some fast facts:

- Rice has been a mainstay of the Japanese diet since cultivation began 2,000 years ago.
- When Japanese people look at the moon, they see a rabbit pounding rice cakes.
- Experts trace some Japanese social behavior to the historic method of cultivating rice in small, terraced fields requiring an emphasis on cooperation and group decision-making.
- The Japanese words for breakfast, lunch, and dinner (*asagohan, hiugohan, bangohan*) mean literally "morning, afternoon, and evening" rice (*gohan*).

Best of Missouri

The fifteenth annual Best of Missouri Market® features over 30 new vendors, more than 120 outstanding Missouri food producers and artisans, and entertainment for the entire family. Every year, Market visitors enjoy browsing under large tents and discovering the best of Missouri's hidden treasures, including country stands filled with fresh produce, flowers, plants, herbs, nuts, candies, meats, mushrooms, seasonings, salsas, and baked goods from Missouri's finest farmers and producers. Artisans offer handcrafted items such as willow furniture, carved wooden birds, dried flowers and wreaths, decorative ironwork, soaps, handmade pottery, baskets, decorated gourds, custom jewelry, wooden toys and garden ornaments.

Entertainment will include musical performances by Cumberland Gap and Vesta Johnson, and cooking demonstrations by Ed Goodman (The KEZK Morning Show–102.5 FM) and The Kelly Twins (Food Talk on KTRS–550 AM and Twice Baked on Charter Communications' CCIN). Children will enjoy a special Kids Corner with activities including pumpkin decorating, cow milking, a petting farm, and live music by Frilly & Miller. A food court with a variety of choices will be available.

Free parking is available at four parking lots approximately two blocks west of the Garden along Shaw Boulevard and in Tower Grove Park. Complimentary shuttles will be running.

Download a complete schedule at www.mobot.org (available September 1).

The 15th annual Best of Missouri Market is sponsored by Schnuck Markets, Inc. Additional support provided by AgriMissouri, Central States Coca-Cola Bottling Company, Commerce Bank, Edward Jones, IR Climate Control Technologies/Hussmann Corporation, Macy's Midwest, McBride & Son Homes, Prairie Farms, UniGroup, Inc., U.S. Bank, and Waterway Gas and Wash. Media sponsporship by KMOX-AM Radio. Thanks to the Girl Scout Council of Greater St. Louis, Fabick Power Systems, and Home Depot, Inc., for in-kind support.

photo by Ryan Rumberger

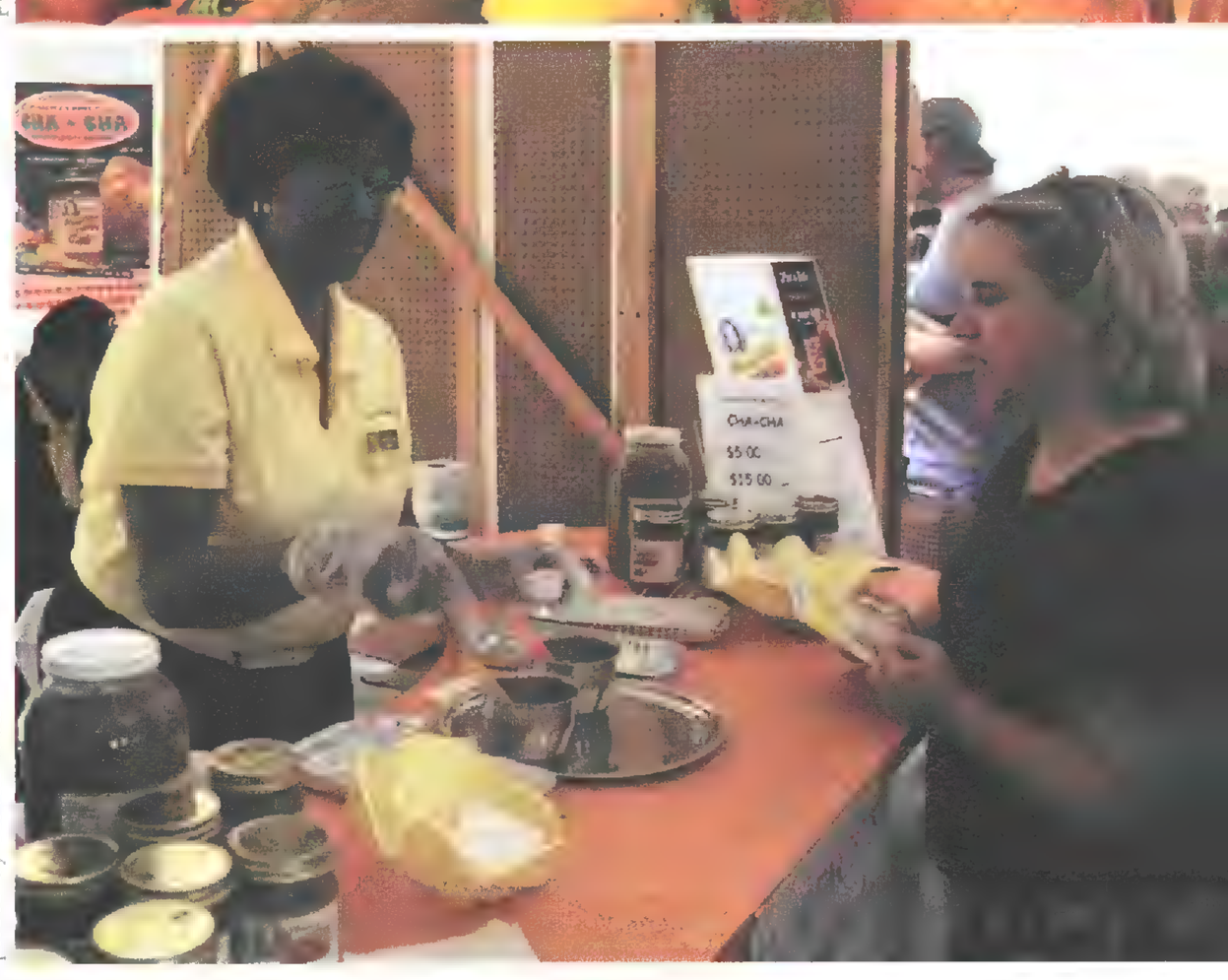


photo by Kevin Wolf

Hours:

Saturday and Sunday, October 7 and 8, 8:30 a.m. to 5 p.m.

Saturday "early bird" shopping for members only starts at 7 a.m. Early-bird refreshments courtesy of Great Harvest Bread, Ronnoco Coffee, and Coca-Cola.

Admission:

$10 adults; $7 seniors (65+); $3 Garden members and children ages 3-12; free for members' children (12 and under).

Admission to the Garden:

The Doris I. Schnuck Children's Garden will be open throughout the festival from 9 a.m. to 5 p.m.; admission is $3 for children, adults are free. Tickets to see Chihuly's *Glass in the Garden* in the Climatron may be purchased on site, online at www.mobot.org, or by calling (314) 577-5152 during weekday business hours. Exhibition admission is $8 all three days; hours are 8:30 a.m. to 8:30 p.m.

Events *continued*

Image of hops from Köhler's Medicinal Plants (1883) in the Garden's rare book collection.

the Brewmasters' gala

presented by Anheuser-Busch

Friday, October 20, 6:30 p.m.

Join us for a very special evening of barley, hops, and yeast to benefit the Garden, when the world-famous brewmasters of Anheuser-Busch gather at the Garden for an autumn celebration of fine beer, food, and conversation. Enjoy gourmet dinner accompanied by beers selected by the very experts who created them for the world's leading brewer. Creative black tie; tickets are $300 per guest (Young Friends $250). Sponsorships are also available. For information and tickets, call (314) 577-0879.

Special for members

Grandparents Day

Sunday, September 10, 1 to 3 p.m., Cohen Amphitheater

Share a fun-filled afternoon with your grandchild in the Doris I. Schnuck Children's Garden. Visit with Finn the Frog, purchase a photo button, enjoy a snack, create a botanical craft, and search for clues to solve the scavenger hunt. Registration is required, so please call (314) 577-9570 today. Activities included with Children's Garden admission.

How Science Moved a Nation

Monday, September 11, 6:30 p.m.

In 2002, Gabon created a new network of 13 national parks. Lecture by Dr. Lee White, Director of the Wildlife Conservation Society's Gabon Program, is free to the public. Cocktail buffet following is $50 per person. Call (314) 577-5101 for reservations.

photo by Jack Jennings

Tour of the George Washington Carver Garden

Tuesday, September 19, 11 a.m.

Instructor Lance Jones leads a tour of this new garden, the first in the nation honoring renowned educator and humanitarian, Missouri-native George Washington Carver. A brief historical overview of Carver's life precedes the walking tour, which will show first-hand how this garden was designed to be an outdoor classroom and source of inspiration to all.

Bus Tour of Historic Ste. Genevieve

Thursday, October 12, departs 8 a.m., returns 6 p.m.

Visit historic Sainte Genevieve, Missouri. Tour the historic Bolduc House and La Maison de Guibourd-Valle. Lunch at Hotel Ste. Genevieve. Shop in the historic district with complimentary wine tasting. Tickets are $40, proceeds benefit the Tower Grove House Auxiliary. Reservations are required. Call (314) 577-5154 by October 5.

photo by Jack Jennings

Fall Color Walk at the Shaw Nature Reserve

Wednesday, October 25, 10 a.m. to noon, Shaw Nature Reserve

Join us for this one-mile walking tour of the prairie and the full fall glory of the Shaw Nature Reserve. We will meet our trail guides at the historic Bascom House, visit the Whitmire Wildflower Garden, and then take the Brush Creek Trail to the Maritz Trail House, where refreshments will be served. The Wilderness Wagon will be available for those who can't easily make the hike.

Chihuly

Glass in the Garden: Chihuly at the Missouri Botanical Garden

Now through October 31

Hours: 8:30 to 5:30 p.m. daily.
Last entry is at 5 p.m.

Admission: Monday through Thursday: $10-14; Friday through Sunday $12-16 (includes Garden admission); Garden members and children 12 and under: $3

Chihuly Nights:
$15 ($10 for Garden members)

Last Months, New Nights

As Chihuly's *Glass in the Garden*, presented by Emerson, enters the final two months (closes Tuesday, October 31), a second opportunity for evening viewing has been added. Beginning Monday, September 18, the Garden will host its popular *Chihuly Nights* on Monday evenings as well as Thursdays. Earlier nightfall in autumn means more hours of darkness in which to experience the luminous *Glass in the Garden* sculptures. Chihuly's *Neon Tumbleweeds* hanging in the Temperate House, the floating *Walla Walla Onions*, and the fiery red *Drum Bridge Chandelier* reflected in the Japanese Garden lake appear even more dramatic at nighttime. The event features music, a cash bar, and a hot shop where artists from Third Degree Glass Factory demonstrate glass blowing techniques. Light fare such as small pizzas, hummus with pita bread, and cheese trays may be purchased for indoor or alfresco dining.

Chihuly Nights

Thursday nights; Monday nights beginning September 18; 6 to 10 p.m.
$15 ($10 Garden member).

Capacity is limited to ensure the best possible evening viewing experience for visitors inside the conservatories. Advance ticket purchase is recommended. Buy tickets online at www.mobot.org, by calling (314) 577-5152 during weekday business hours, or on site. A limited quantity of tickets are made available for purchase on the day of the event starting at 8:30 a.m. *Glass in the Garden* and *Chihuly Nights* are held rain or shine. The music and glass blowing activities may be modified during inclement weather.

Photographer's Hour

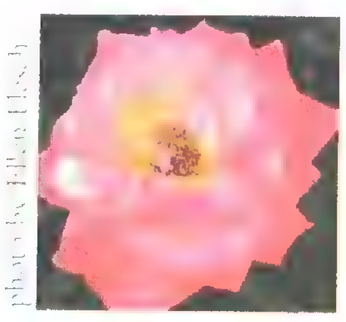
Saturdays, September 9, October 14; 7 to 8 a.m.

For plant conservation and public safety, Garden photography policy prohibits the use of monopods and tripods in all conservatories. However, due to the intense interest generated by the *Glass in the Garden* exhibition, the Garden is offering a special Photographer's Hour when monopods and tripods may be used. This early morning access is open to both amateur and professional photographers for their personal enjoyment. Photos taken may not be used or sold for any commercial purpose. Each Photographer's Hour is limited to 25 photographers, first come, first served, by reservation only. Tickets are $50 ($25 for Garden members), and must be purchased in advance. Call (314) 577-5101 to purchase tickets.

Chihuly: the Romance of Glass

Monday, September 18, 11 a.m., Ridgway Center

Cara McCarty, the Saint Louis Art Museum Grace L. and Richard E. Brumbaugh curator of decorative arts and design, will speak at the Garden on the development of the studio glass movement and the pivotal role of Chihuly and his work.



Chihuly Rose in Bloom

Hybridized and named in honor of the artist in 2004, the Chihuly rose in the Gladney Rose Garden is a double-bloom floribunda with spectacular coloration inspired by Chihuly's art. "It is hard to miss the bright colors," says the Garden's rosarian Sarah Anderson. "The buds start out yellow, with pale orange accents. As the bloom opens, it does something that few roses do: it 'suntans' to a bold mix of oranges and reds." A limited supply of Chihuly rose bushes are available for purchase this fall in the Garden Gate Shop.

Volunteer

photos by Kristi Lowe

Volunteer Service Recognition

On Wednesday, June 7, the Garden hosted the annual volunteer service recognition luncheon honoring volunteers with awards for for their 10-, 20-, and 30-year commitments. The Garden is deeply grateful to the volunteer corps, without whom, we could not operate at current levels of international renown and community outreach.

Thirty-year volunteers: LaVerne Jaudes, Joyce Niewoehner, Sharon Dougherty, Dr. Peter H. Raven, Carol Wilson, and Fran Kroeger.

Twenty-year volunteers: Barbara Rezny, Abby Filippello, John Stephens, Mary Bard, Nadine Kouba, Dr. Peter H. Raven, Gerry Bickel, Katie Harper, Marcia Carpenter, Mary Seright, and Sue McNamara. Not pictured: Joann Arpiani, Pat Becklean, Holly Brigham, Fred Clapper, Hazel Cox, Christy Jones, Joan Merz, and Linda Traina.

Ten-year volunteers: Front row: Sue Quirk, Walter Blaine, Alberta Blaine, Judy Moskoff, Ima Bote, Jean Ohmer, Dr. Peter H. Raven, Gloria Mitchem, Zelda Rogul, Irene Kohm, Jacquie Scharlott, Marge Normile, Sally Dobrunz, and Margaret Phillips. Back row: Skip Larson, Ellen Larson, Helen Serotte, Paul Biesterfeldt, Claude Pope, Jim Horn, Marilyn Chryst, Ann Earley, Bill Lenz, Sandy Marler, Derek Payne, Al Mullek. Not pictured: Joe Brewster, Bart Devoti, Pat Devoti, Kathleen Dudley, Jasmine Fazzari, Anne Grant, Bill Grant, Albert Grimm, Nancy Hart, Janet Jump, Maryellen May, Maxine Mirowitz, Charlie Naeger, Farnell Parsons, Ray Poninski, Ray Poninski, Carol Squires, Gail Swick-Meeks, Madeleine Tufts, Phyllis Weidman.

Time to make a difference?

Volunteer opportunities are available, everything from hands-on horticulture, to instruction, to media and library work. For more information, please contact Jackie Juras at (314) 577-5187.

LITTLE SHOP AROUND THE CORNER

ANTIQUES HOME & GARDEN FURNISHINGS

4474 Castleman, St. Louis, MO 63110
(corner of Shaw and Vandeventer) • (314) 577-0891
Hours: Tues. through Sat., 10 a.m. to 4 p.m.

While George Kinsey was caring for his mother during her cancer treatments, he discovered a cache of badly tarnished silver antiques in the basement. Polishing silver became a kind of meditation, and he would spend up to 3 hours on a single piece. He also learned a thing or two about silver antiques and decided to volunteer his new-found skills at the Little Shop.

photo by Elizabeth McNulty

"We often receive donations of silver, but they arrive tarnished and provenance unknown," says the Little Shop Supervisor Mark Currington. "With George polishing and identifying the pieces, our sales have increased dramatically."

A chef at a local catering company, George has had a passion for "all things old" since childhood. Since starting at the Little Shop in March of this year, he has cleaned, researched, and prepared for sale over 200 pieces of donated silver. Whether you're shopping for that perfect gift or looking for a worthy cause to accept your donation, just remember the Little Shop! It's one more tax-deductible way to support the Garden.

Drop in for a Visit!

by Dr. Katie Belisle-Iffrig, Children's Garden Manager

Research has shown that plants are "the most important, least understood, and most taken for granted of all living things." At the Doris I. Schnuck Children's Garden, staff, volunteers, and parents are working to ensure that nature has an increasing presence in children's lives. Early fall will be a time of excitement, learning, and fun, featuring new drop-in activities for friends and families, included with Children's Garden admission.

Great Green Adventures

Second and fourth Saturdays in September and October; 10 a.m. to noon

Come out and play with us, and let us engage your child or grandchild in the joys of nature as they learn about the many uses of plants in human life. Topics include:

Plants as toys *(September 9).*
Make a cornhusk doll and a cattail duck to take home.

Plants as food and drink *(September 23).*
Make and enjoy apple cider and apple butter; grind corn to make grits.

Plants and nutrition *(October 14).*
Sponsored by St. Louis Children's Hospital

Plants as decoration *(October 28).*
Make a nature mask to take home.

Save the Date: Bedtime

Sunday, November 5, 1 to 4 p.m.
Help us put the Children's Garden to Bed. Come in your pajamas and learn how plants and animals prepare for winter through arts, crafts, and fun interactive games. Plant a daffodil bulb in the Children's Garden and take your own daffodil bulb home to plant. When your daffodil blooms in spring, it's time to visit us again at the Doris I. Schnuck's Children's Garden!

fall into fun!

Enjoy the changing seasons as you explore the Garden with your child or grandchild. Advance registration is required and class size is limited, so enroll today!

A fun, low-impact workout for all fitness levels, **Strollerobics** is offered weekly on Mondays, Tuesdays, Wednesdays, Thursdays, or Fridays beginning on September 11. Classes are held from 9:30 to 10:30 a.m. for eight weeks. Cost is $55 per adult.

Two-and-three-year olds can join other **Little Sprouts** in classes that explore "Animals and Plants." Weekly classes include a Garden walk, song, story time, hands-on activities, and snack. The six-week series is offered on Mondays or Tuesdays from 10 to 11:30 a.m. beginning September 11. Cost is $108 per child; adult caregiver participation required.

Preschoolers ages four and five use taste, touch, smell, sight and hearing to learn about botanical wonders as **Garden Buds**. Each 90-minute class highlights a different garden and includes a walk, hands-on indoor activities, story and snack. Each class is available on a Thursday morning at 10 a.m. or Sunday afternoon at 1 p.m. Enroll in the entire seven-class series for $104 per child ($90 per child for Garden members); or register for individual classes at $16 each ($14 Garden members). Classes are offered September 17 through December 17. Children must be accompanied by an adult.

photo by Justin Visnesky

The new fall/winter menu comes into season at Sassafras with the autumnal equinox, September 23. To celebrate the hearty offerings, chef Lynn Heerman shares with us his recipe for a new menu item, Mushroom Barley Soup.

Mushroom Barley Soup (serves 8–10)

by chef Lynn Heerman

1 onion, diced
1 bunch celery, diced
3 carrots, diced
1 head garlic, diced
3 shallots, diced
4 cups sliced mushrooms (button, portabella, shitake)
1 cup barley
2½ quarts (10 cups) beef stock
1 cup red wine
1 stick butter
2 cups heavy cream
1 tablespoon chopped thyme
1 tablespoon chopped parsley
1 tablespoon salt
1 teaspoon pepper

1. Melt butter in a large stock pot then add onions, carrots, and celery. Sauté till onions are translucent.

2. Then add garlic, shallots, mushrooms, thyme, parsley, barley, and salt and pepper. Stir and sauté the ingredients till some browning occurs on the edges.

3. Add the red wine to deglaze the pan. When the wine is almost gone add the beef stock and cook till the barley is tender.

4. Add the heavy cream and thicken with a white roux (a bit of flour cooked lightly in butter), as needed.

Scents of a Fall Soup

by Dr. Wendy Applequist, Assistant Curator

Since several staple items—onion, celery, carrots, parsley, and pepper—were already treated by Dr. Applequist this spring (see *Bulletin* March/April 2006), here she addresses the remaining ingredients.

For millennia, GARLIC (*Allium sativum*) has been used to treat a wide variety of infections and conditions ranging from worms to heart disease. During World War I, British doctors requisitioned tons of garlic for treatment of wounds to prevent infection.

Fungi, including MUSHROOMS, are actually more closely related to animals than to plants. The common button mushroom is a mutant white variety of *Agaricus bisporus*. The older, fleshier, and more flavorful brown variety is known as crimini when young and portabella at maturity. Though known by their Japanese name, Shiitake mushrooms (*Lentinula edodes*) are actually native to China.

BARLEY (*Hordeum vulgare*) was one of the first crops domesticated in the Middle East; beer was brewed at least 7,000 years ago in the region of modern Iran. Indeed, some have suggested that early agriculture was motivated more by the thirst for beer than by the hunger for bread!

An onion relative with clusters of small bulbs, SHALLOTS (*Allium ascalonicum*) have a mild flavor that people who find garlic too strong may enjoy. They were one of many vegetables introduced to Europe from western Asia by the Romans.

The ancient Greeks believed that THYME (*Thymus vulgaris*) inspired courage, and medieval ladies embroidered sprigs of thyme on scarves given to knights as favors. The herb was also thought in medieval days to be a favorite plant of fairies. Today, thyme is valued as a culinary herb and to treat coughs.

Like beer, WINE (made from grapes, *Vitis vinifera*) has been made for several thousand years in the Near East and Mediterranean area; the pharaohs of Egypt enjoyed wines from their own vineyards. Grapes contain numerous chemicals with health benefits, from resveratrol in the skins to flavanols and oligomeric procyanidins in the grapes.

Research

Amur honeysuckle (Lonicera maackii), *an invasive exotic in Missouri*

photo by George Yatskievych

Celebrating Missouri's Flora

During any given month, Missouri Botanical Garden researchers may be found studying climate change or medicinal plants in the eastern Himalayas, mapping the shrinking Atlantic forests of Brazil, discovering new species of mosses in Bolivia, working to preserve Madagascar's unique flora, or cataloging plants in Costa Rica, Tanzania, and Vietnam. But the Garden also conducts botanical research closer to home, even in the Show-Me state.

The Garden's first botanist, George Engelmann, began collecting plants in the St. Louis area in the 1830s. At that time, there were still thriving wetlands around Chouteau's Pond (near 9th and Poplar streets, drained in the 1850s) and entirely new species to be discovered and described from places like sinkhole ponds in the Carondelet area.

A century later, native St. Louisan and Garden curator Julian Steyermark began his botanical career. His masterpiece, the 1963 *Flora of Missouri*, would become the foundation for all subsequent research on Missouri botany. It also led to the creation of the *Flora of Missouri* project at the Garden in 1987, run by Garden curator George Yatskievych with a small team of assistants and volunteers, in cooperation with the Missouri Department of Conservation.

One of the main tasks of the project has been a thoroughly revised edition of *Steyermark's Flora of Missouri*, including nearly 400 new native and introduced plant species than the original. Documenting the plants that grow in Missouri is a never-ending challenge, as plant diversity and distributions change over time. For example, some of the region's worst invasive exotic weeds, such as Amur honeysuckle (*Lonicera maackii*) and garlic mustard (*Alliaria petiolata*), were unknown in 1963 and have migrated into the state since that time.

The new *Flora* is an essential, three-volume, encyclopedic reference about the state's plants, useful for identification and description of plants, but also providing a wealth of information on plant uses, gardening, ecology, and other aspects of the species. Volume 2 includes 900 species, among them parsley, carnation, morning glory, and mustard families, as well as the sunflower family, of which 329 species occur in Missouri, the largest number for any plant here.

Check out your local botanical heritage today! Volumes 1 and 2 are available at the Garden Gate Shop. The third and final volume is expected in the next five years.

Back to School

Whether your passion is gardening, cooking, photography, arts, or crafts, the Missouri Botanical Garden offers a wide range of classes this fall sure to pique your interest. Registration is now open, and Garden members receive discounts of up to 20% on all classes, so call or go online to reserve your spot today.

- GARDEN DESIGN: Learn about garden design, plant selection, and care from the Garden's expert instructors. There are classes to explore answers to specific questions ("Planting Under Trees," "Complete Perennial Care"); and others, like the multipart "Home Landscape Design," which develop comprehensive plans for your yard, encompassing soil quality, energy conservation, plant material, and more.

- TOURS: Japanese Garden supervisor Ben Chu will introduce participants to the history, elements, and beautiful style of "Japanese Garden Design." Explore the history and symbolism of the Margaret Grigg Nanjing Friendship Garden with a "Chinese Garden Appreciation Tour."

- NATURE: Capture the beauty of the nature through classes in watercolor, pastels, or digital photography, for skill levels from beginner to advanced. Arts and crafts classes incorporate nature as well. Make a unique serving dish from a gourd or transform a leaf into a beautiful silver pendant to wear.

- FOOD: Plants also create delicious recipes! Learn to pair food and wine in a class devoted to sharpening your taste buds. Do you know the five "mother sauces" of traditional French cuisine? The chef of Garden restaurant Sassafras will teach you how to create and employ them. Back by popular demand: the Diabetic Gourmet features creative recipes and special modifications suitable for diabetic and other health-conscious individuals.

Classes are held primarily at the Garden, but sessions are also available at the Butterfly House, Shaw Nature Reserve, and elsewhere. Single- and multiple-class sessions are available from late August through December and range in price from $15 to $280.

To register

Phone: (314) 577-9441

Online: visit www.mobot.org and click the link for Education "For adults."

Did you receive it?

You should already have received the new Adult Education catalog in the mail. If not, please call (314) 577-9441 to request another.

What to do in your garden now...

clip and save

photo by Charles Schmidt

September

all month

- Begin fall seeding or sodding of cool-season grasses. Seedbeds should be raked, de-thatched or core-aerified, fertilized, and seeded. Keep newly planted lawn areas moist, but not wet. Cool season lawns are best fertilized in fall. Make up to three applications between now and December. Do not exceed rates recommended by fertilizer manufacturer.
- Autumn is a good time to add manure, compost, or leaf mold to garden soils for increasing organic matter content.

week 1

- Cut annuals to provide vigorous plants for over-wintering.
- Herbs can be dug from the garden and placed in pots now for growing indoors this winter.
- Pick pears before they are fully mature. Store in a cool, dark basement to ripen.
- Sow seeds of radish, lettuce, spinach, and other greens in a cold frame.

week 2

- Plant spring bulbs (except tulips) as soon as they are available.
- Ready houseplants for winter indoors. Prune back rampant growth and protruding roots. Check for pests.
- Bring plants indoors a month before the heat is turned on.
- Pinch the top of Brussels sprout plants to plump the developing sprouts.
- Tie leaves around cauliflower heads when they are about the size of a golf ball.
- Keep broccoli picked regularly to encourage additional production.
- Top-dress lawns with compost or milorganite, best after aerifying.

week 3

- Poinsettias can be forced into bloom for the holidays if they are moved indoors now to a sunny windowsill. Each night, they must be kept in a cool, dark place where there is no light for 14 hours. Continue until proper color is achieved in 6 to10 weeks.
- Pinch off any young tomatoes that are too small to ripen to channel energy into ripening the remaining full-size fruits.
- Newly seeded lawns should not be cut until they are at least 2–3 inches tall.

week 4

- Divide perennials now. Enrich the soil with peat moss or compost before replanting.
- Divide peonies now. Replant shallowly in a sunny site.
- Lift gladiolus when their leaves yellow. Cure in an airy place until dry before husking.
- Check along peach tree trunks to just below the soil line for gummy masses cased by borers. Probe holes with thin wires to puncture borers.
- Sow spinach now to over-winter under mulch for spring harvest.

For additional information on plant care and gardening:

- *visit the Wm. T. Kemper Center for Home Gardening*
- *call the Horticultural Answer Service, Monday through Friday, 9 a.m. to noon, at (314) 577-5143.*
- *check out the Gardening Help section at www.mobot.org*

photo by Charles Schmidt

October

all month

- Plant spring bulbs among hostas, ferns, daylilies, or ground covers. As these plants grow they will hide the dying bulb foliage.
- Plant container-grown and balled-and-burlapped trees and shrubs now. Loosen the soil in an area five times the diameter of the root ball before planting. Mulch well after watering. Continue watering, especially evergreens if soils are dry.
- Store apples in a cool basement in old plastic sacks that have been perforated for good circulation.
- Sow cover crops such as winter rye after crops are harvested.

week 1

- For best bloom later this winter, Christmas cactus, potted azaleas, and kalanchoe may be left outdoors until night temperatures drop to about 40° F.
- Continue harvesting tender crops such as winter squash and pumpkins before frost. For best storage quality, leave an inch or two of stem on each fruit. Dig sweet potatoes before a bad freeze. Gourds should be harvested when their shells become hard or when their color changes from green to brown.
- A few degrees of frost protection may be gained by covering tender plants with sheets or lightweight fabric row covers.

week 2

- Cannas and dahlias can be dug when frost nips their foliage. Allow the plants to dry under cover in an airy, frost-free place before storage.

week 3

- Transplant deciduous trees once they have dropped their leaves.
- Monitor fruit plantings for mouse activity and take steps for their control if present.
- Continue mowing lawns until growth stops. Keep leaves raked off lawns to prevent smothering grass. Now is a good time to apply lime if soil tests indicate.

week 4

- Plant tulips now.
- Trees may be fertilized now, following soil test guidelines.
- Place wire guards around trunks of young fruit trees for protection against mice and rabbits.
- Winterize mowers before storage.

Plant of Merit

Heptacodium miconiodes
Seven-son flower

A large, fountain-shaped, deciduous shrub that grows 15-20 feet at maturity. In late summer to early fall, fragrant, creamy-white flowers appear with each whorl containing 7 tiny flowers, hence the common name of Seven-son flower. Flowers are followed in fall by small, purplish-red fruits. Tan bark exfoliates to reveal brown inner bark. A native of China, this plant is rare and may no longer exist in the wild, but is growing in popularity as an ornamental.

Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org

www.mobot.org gardeninghelp/plantfinder

Garden at large

Butterfly House

photo by Mark Deering

Monarch butterfly

Monarchs, Moonlight, and Music

Sunday, September 30, 6:30 p.m. $175

One of Missouri's largest and most beautiful butterflies, the monarch (*Danaus plexippus*) certainly deserves its kingly moniker. With striking coloring warding off potential predators, monarchs migrate more than 2,000 miles to reach sunny Mexican destinations in winter. They stop along the way for drinks of sugary nectar in locations like the outdoor Butterfly Garden at the Sophia M. Sachs Butterfly House.

So this year, make like a monarch and migrate to the Butterfly House for "Monarchs, Moonlight and Music." This magical evening will begin at 6:30 p.m. with cocktails and a silent auction in the Butterfly Garden. As dusk settles, guests will be seated for a gourmet dinner, a live auction, and a performance by the Erin Bode Group. The live auction will showcase unique items, including a one-week stay at an exclusive. private home in Cabo San Lucas.

Proceeds from this event benefit the Butterfly House's educational programs and exhibits. Individual tickets are $175 and table sponsorships are also available. To make your reservation, call (314) 577-0291.

Education and Events

BUZZ

Saturdays, September 16, October 14; 10 a.m.

A monthly series of 90-minute classes, workshops, and events for young scientists ages 8–12 with a parent or guardian. $13 ($9 for Garden members). Class size is limited, so register today at (636) 530-0076, ext. 10.

September 16 Monarchs, the Great Migration
October 14 Defense against Dark Ants

Haunted Happenings

Saturday, October 22, 11 a.m. to 2 p.m.

Dress your little goblins (ages 2 to 10) for a ghostly good time. Visit the Haunted Happenings where you will meet face-to-face with some of the nicest bad guys in fairy tales. Play games and make crafts based on favorite children's stories; all activities are included with regular admission.

Butterfly House

15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

More than a thousand live tropical butterflies are in free flight inside the glass conservatory at the Sophia M. Sachs Butterfly House. Visit native and migrating species in the outdoor gardens of the Butterfly Garden. Watch a butterfly emerge from a chrysalis right before your eyes. Whatever your age, you'll enjoy a trip to the Butterfly House where wonder takes flight!

Sophia M. Sachs Butterfly House

Tributes and Pavers donated to the Butterfly House in May–June 2006.

Tributes

In honor of
Colleen Sonnenfelt
The Butterfly House

In memory of
Mother of Delbert T. Escher
Dr. and Mrs. Jules M. Snitzer

Pavers

Celebrate the birth of a child, weddings, birthdays, or honor or memorialize someone special in your life by purchasing an engraved paving stone at the Butterfly House. Call Fay Orr at (314) 577-0874 or go online at www.butterflyhouse.org and click on "Ways to Give."

William Blackwell
Virginia Blackwell
Emelia M. Carmichael
Judy and Vernie
Mary Anne Cordes
Erica Boyet
Mark Cordes
Lourane Davis
DiCampo Family
Sandra K. Fischer
Kennerly School PTP
Rita Hawkins
Robyn Birkenholz
Courtney S. Lammert
Michelle and John
Sandy and Denny
Minnie and Doc Schear
S. Schomer
Marilyn Schear

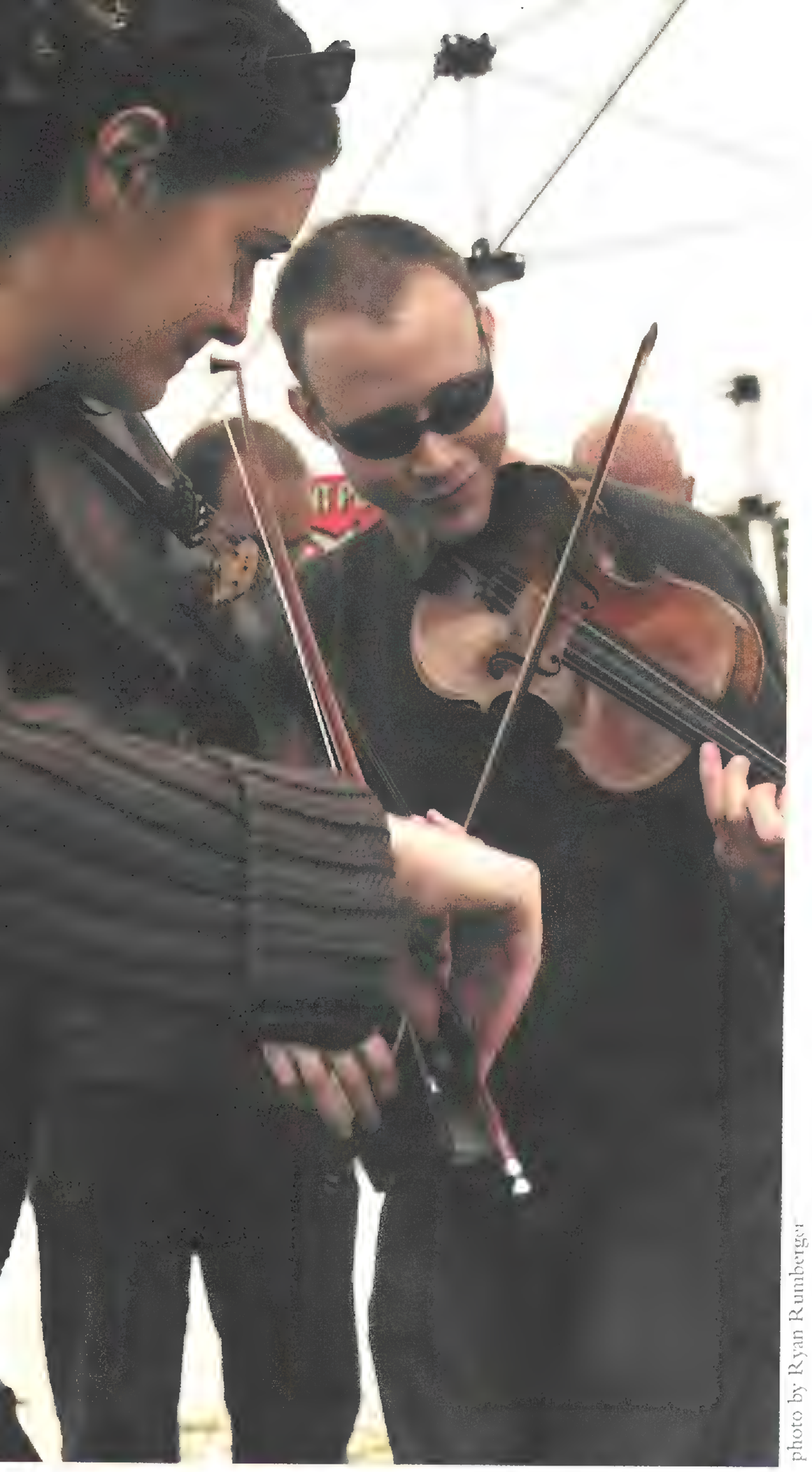


photo by Ryan Rumberger

Bluegrass musicians at the 2006 Harvest Festival.

Garden at large

Shaw Nature Reserve

5th annual

Harvest Festival

Sunday, October 15, 11 a.m. to 5 p.m.,
$5 ($3 for Garden members; free for children 12 and under)

The fifth annual Harvest Festival will feature food from some of St. Louis's top restaurants, a farmers' market with local produce and products, hayrides, pony rides, a petting zoo, self-guided tours of the Reserve, and live bluegrass music. Please note: No pets or outside beverages allowed. Coolers allowed for produce purchases. Due to limited parking, carpooling is recommended as both efficient and Earth-friendly. Come to Gray Summit for a day of down-home, family fun! Visit www.harvestfeststl.com for more information.

Music Schedule

Augusta Bottoms *(American folk music)*, 11 a.m. to 12:45 p.m.
The Grass Pack *(bluegrass)* 11:30 a.m. to 3:30 p.m. (acoustic stage)
The Flying Mules *(retro-folk, bluegrass, rock)*, 1 p.m. to 2:45 p.m.
Salt of the Earth *(roots music)*, 3 to 5 p.m.

Presented by Sauce *Magazine, Schlafly Beer, and Shaw Nature Reserve. Sponsors include Bank of Washington,* Washington Missourian, *Mount Pleasant Winery, KDHX 88.1 FM, and KWMU 90.7 FM.*

Painted Plants

Friday, September 1 to Tuesday, October 31, 10 a.m. to 4 p.m.
Artist Linda S. Ellis's water-color illustrations of Missouri native plants on view in the Bascom House.

Follow the Herd to Prairie Day

Saturday, September 9, 10 a.m. to 4 p.m., free for members
It's your biannual chance to experience life on the prairie! Hike with a naturalist through the Reserve's 250-acre tall-grass prairie, check out a sod house, play pioneer games, listen to roving musicians or a storyteller, and watch weavers, spinners, a blacksmith, a candle-maker, and other craft demonstrations. Living history re-enactors, an archaeologist, and a flint-knapper will display and interpret artifacts of prairie life. Native plant nurseries will sell prairie wildflowers and seeds. Concessions include bison burgers, baked goods, root beer, and kettle corn.

Whitmire Wildflower Garden Open House

Saturday, September 16, 9 a.m. to 4 p.m., $30
A one-day seminar with multiple experts on everything you need to know about landscaping with wildflowers and other native plants. Reserve your space: (636) 451-3512.

Native Plant School: Prairie Reestablishment

Thursday, October 12, 1 to 4 p.m., $12 ($8 for Garden members)

SHAW NATURE RESERVE

Hwy. 100 & 44 (exit 253)
Gray Summit, MO 63039
phone: (636) 451-3512
www.shawnature.org

Founded in 1925, the Shaw Nature Reserve encompasses 2,400 acres of tall-grass prairie, forests and glades, woodlands and wetlands, and 14 miles of hiking trails.

photo by Ryan Rumbaugh

Garden at large

EarthWays Center

Recharge Your Green Power

Energy & Recycling Festival | September 16 or 17

What's more efficient than changing your light bulbs to compact fluorescents for only 99¢ each? What's cooler than sampling snacks cooked by the sun? What's more resourceful than discovering new recycling opportunities? Getting to do ALL this and more in one fun and fascinating fall festival weekend at the EarthWays Energy & Recycling Festival!

Energy conservation and recycling are practices that make good sense, especially as fuel and utility costs continue to rise and we learn more about global climate change. EarthWays Center's fifth annual celebration of ways to use natural resources wisely brings together useful information and practical demonstrations all geared to help you save money, protect the environment, and make your home healthier and more comfortable.

Kids can make a lantern from recycled materials on Saturday at noon or 2 p.m. or build a racing car to compete in the 2006 Solar Speedster Derby on Sunday at noon or 2 p.m.

Energy-smart shoppers can browse novel and beautiful recycled-content wares in the Garden Gate Shop's Green Bazaar, and stock up on Energy Star-qualified compact fluorescent light bulbs at the special festival price of ninety-nine cents per bulb.

Everyone can talk to experts about energy production, windows, insulation, solar and wind power, green homebuilding, native plants, fuel-efficient vehicles and hardwood flooring sustainably produced right here in Missouri. Local businesses will display products and equipment that offer cost-effective ways to make your family's lifestyle greener. Guest speakers will share their know-how on topics including computer recycling, composting and more at 11 a.m., 1 and 3 p.m. both days,

Mark your family calendar for Saturday and Sunday, September 16 and 17 for an energizing and empowering visit to the Garden's EarthWays Center. Festival hours are 10 a.m. to 4 p.m. each day. And it's all free, to save your family even more GREEN!

Visit www.earthwayscenter.org for more information and to download a schedule of events.

Major sponsors of the EarthWays Energy & Recycling Festival include Ameren UE, Laclede Gas, the Missouri Department of Natural Resources, and the St. Louis-Jefferson Solid Waste Management District.

EARTH WAYS CENTER

3617 Grandel Square
St. Louis, MO 63108
phone (314) 577-0220
fax (314) 577-0298
www.earthwayscenter.org

Discover "green" options for home, school, and workplace. Public tours offered on third weekend of every month at 11 a.m., noon, 1 p.m., and 2 p.m. Visit online for group tour bookings and other resources.

The Garden thanks our Corporate Partner Members

New or renewed, February 16 to August 21, 2006

Principal Level
($25,000 and up)
Monsanto Company

Shareholder Level
($10,000 to $24,999)
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May–June 2006

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By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call the Development Office at (314) 577-9455 for further information and a complimentary brochure. Visit our website at www.mobot.org. Click on Membership, then Planned Giving Guide.

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Hours: 9 a.m. to 6 p.m. daily.
All proceeds benefit the Garden.

Visit the Garden Gate Shop and the temporary *Glass in the Garden* Shop at the Climatron for spectacular glass gifts and decor.

Members receive 20% off (excluding Chihuly prints and glass) on sale dates: September 19, October 7–8, and October 25.

photo by Justin Visnesky

photo by JJ Lane

Members' Entry Court

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact Fay Orr at (314) 577-0874 or visit our website, www.mobot.org.

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening May–June 2006.

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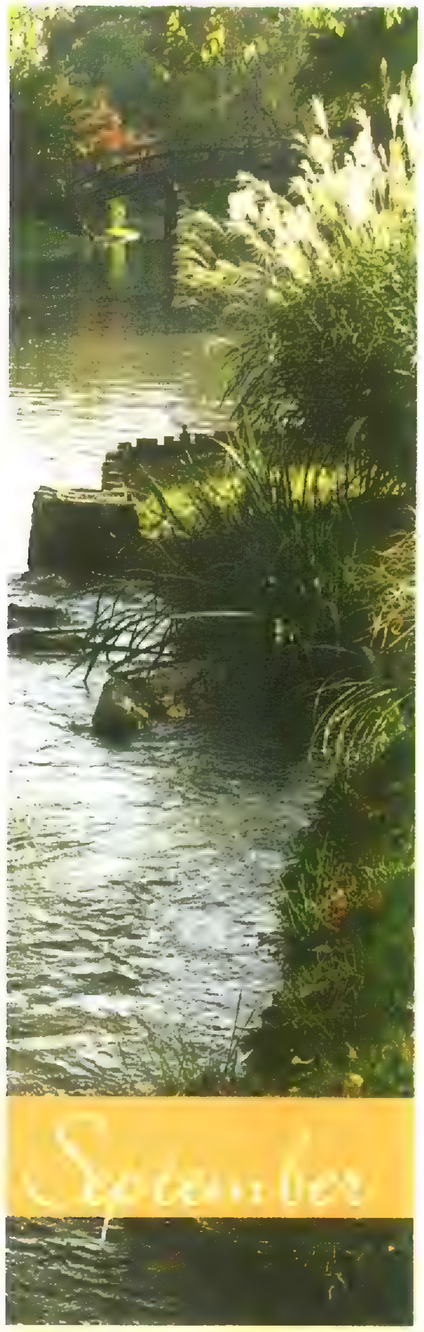
Calendar of events...

Sept family

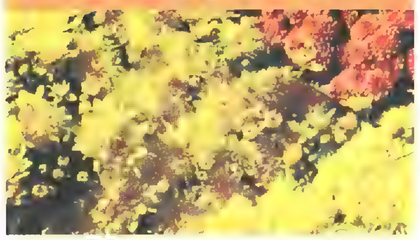
Butterfly House
EarthWays Center
Shaw Nature Reserve



Blooming now...
Water lilies at peak bloom... summer annuals, fall perennials, exotic cannas, daylilies

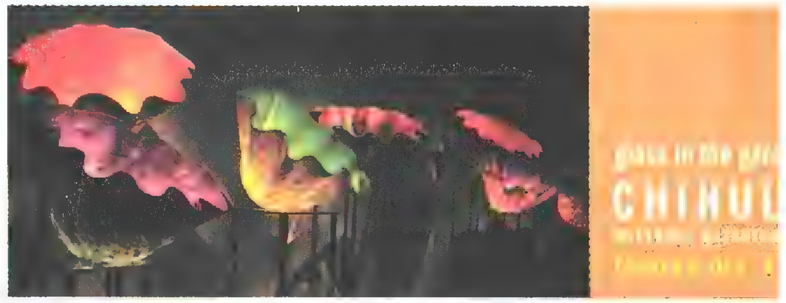
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	glass in the garden CHIHULY in the missouri botanical garden through Oct. 31, 2005				01	02 sumo's back! ■ **Sept. 2-4:** Japanese Festival. 10 a.m. to 8 p.m. See p. 6. $
03 sumo's back! ■ Japanese Festival. 10 a.m. to 8 p.m. $ See p. 6.	04 sumo's back! *Labor Day* ■ Japanese Festival. 10 a.m. to 5 p.m. $ See p. 6.	05 ** Members' Day Members receive free admission to Chihuly and the Children's Garden, 9 to 11:30 a.m.	06 Chihuly Night 6–10 p.m. $	07	08 ■ Shobi Kai calligraphy exhibit	09 ADVENTURES 10 a.m. to noon. See p. 11. ■ Chihuly: Photographer's Hour. $☎ See p. 9. ■ Prairie Day. SNR. See p. 17.
10 *Grandparents' Day* ■ Greater St. Louis Iris Society plant auction. 12 to 4 p.m. ■ EarthWays Energy Festival. EC. See p. 18.	11 ■ Lecture: How Science and Exploration Moved a Nation. $☎ See page 8. ■ Members' Grandparent's Day. $☎ See page 8.	12 ■ Heritage Society Breakfast. ☎	13 ■ Henry Shaw Dinner. ☎	14 Chihuly Night 6–10 p.m. $	15	16 ■ Carnivorous Plant Society show and sale ■ BUZZ. BH. $☎ See p. 16. ■ Whitmire Wildflower Garden Open House. SNR. $☎ See p. 17. ■ EarthWays Energy Festival. EC. See p. 18.
17 ■ Gesneriad Society show and sale ■ Greater St. Louis Dahlia Society show	18 ■ Lecture: the Romance of Glass. 11 a.m. See p. 9. Chihuly Night 6–10 p.m. $	19 ** Members' Day Carver Garden tour. See p. 8. ■ Members receive 20% off in the GGS and LS *(excluding Chihuly merchandise)*	20	21 Chihuly Night 6–10 p.m. $	22	23 ADVENTURES 10 a.m. to noon. See p. 11. ■ Gesneriad Society show and sale ■ Greater St. Louis Dahlia Society show
24	25 Chihuly Night 6–10 p.m. $	26 27	28 Chihuly Night 6–11 p.m. $	29	30	31 ■ Rhapsody in Bloom, 10 a.m. to 3 p.m. ■ Greater St. Louis Daffodil Society sale ■ Orchid Society show and sale, 12 to 5 p.m. ■ Monarchs, Moonlight, and Music. BH. $☎ See p. 16.

October



Blooming now...
Mums in the Swift Family Garden...the colors of autumn throughout the grounds... unusual squashes at the Kemper Center for Home Gardening

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01 ■ Greater St. Louis Daffodil Society sale ■ Orchid Society show and sale, 12 to 5 p.m.	02 Chihuly 6–10 p.m. $	03 ** Members' Day Members receive free admission to Chihuly and the Children's Garden. 9 to 11:30 a.m.	04 ■ AARP Celebration of Life	05 Chihuly 6–10 p.m. $	06	07 9 a.m. to 5 p.m. $ See p. 7.
08 9 a.m. to 5 p.m. $ See p. 7.	09 *Columbus Day* Chihuly Nights 6–10 p.m. $	10 ■ Director's Associates Evening. ☎	11	12 ■ Bus Tour of Ste. Genevieve. $☎ See p. 8. ■ Native Plant School SNR. $☎ See p. 17. Chihuly Nights 6–10 p.m. $	13	14 10 a.m. to noon. See p. 11. ■ Chihuly: Photographer's Hour. $☎ See p. 9. ■ BUZZ. BH. $☎ See p. 16.
15	16	17	18	19	20	21
22 Harvest Festival SNR. $ See p. 17.	23 Chihuly Nights 6–10 p.m. $	24	25	26 Chihuly Nights 6–10 p.m. $	27 ■ Brewmasters' Gala, in cooperation with Anheuser-Busch. $☎ See p. 8.	28 ■ EarthWays Tours 11 a.m., noon, 1, and 2 p.m. EC. See p. 18.
29 ■ EarthWays Tours 11 a.m., noon, 1, and 2 p.m. EC. See p. 18. ■ Haunted Happenings. 11 a.m. to 2 p.m. BH. See p. 16.	30 Chihuly Nights 6–10 p.m. $	31 *Halloween*	** Members' Day Fall Prairie Walk. SNR. 11 a.m. See p. 17. ■ Members receive 20% off in the GGS and LS *(excluding Chihuly merchandise)*	Chihuly Nights 6–10 p.m. $		 10 a.m. to noon. See p. 11. ■ Mid-America Regional Lily Society sale
■ Mid-America Regional Lily Society sale ■ Classic 99's From the Garden, Live*, noon	Chihuly Nights 6–10 p.m. $					



■ Oct. 1 through Dec. 31.
2007 Missouri Botanical Garden calendar available for purchase in the Garden Gate Shop.

BH	= Butterfly House	MC	= Monsanto Center
CA	= Cohen Amphitheater	RC	= Ridgway Center
CL	= Climatron	SNR	= Shaw Nature Reserve
EC	= EarthWays Center	SP	= Spink Pavilion
GGS	= Garden Gate Shop	**	denotes a members-only even
JG	= Japanese Garden	$	denotes an additional fee
KC	= Kemper Center	☎	denotes reservations required
LS	= Little Shop Around the Corner		

photos by Lisa Francis, Jack Jennings, JJ Lane, Terry Rishel, Ryan Rumberger, Charles Schmidt, and Kevin Wolf.

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Missouri Botanical Garden Library

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General information

Hours

The Garden is open every day except Christmas, 8:30 a.m. to 5:30 p.m. Parking is free.

General admission*

Adults age 13–64 ..... $8
Members and children 12 and under .... free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings from 8:30 a.m. to noon (unless special event pricing applies).

**Special events require an additional fee.*

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Chihuly Reservations ..... (314) 577-5152
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Garden Gate Shop ..... (314) 577-5137
Group Tours ..... (314) 577-0275
Membership ..... (314) 577-5118
Plant Doctor ..... (314) 577-5143

Credits

Editor: Elizabeth McNulty
Designer: Ellen Flesch
Cover photo: *Japanese Bridge Chandelier, 2006* by Dale Chihuly. Photo by Charles Schmidt.
Back cover photo: Pumpkin decorating at the Best of Missouri Market®. Photo by Kevin Wolf

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The BULLETIN (ISSN 0026-6507) is published bi-monthly by the Missouri Botanical Garden, 4344 Shaw Blvd, St. Louis, MO 63110.
Periodicals postage paid at St. Louis, MO.

Postmaster: Please send address changes to: *Bulletin*, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

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The fifteenth annual Best of Missouri Market® features over 30 new vendors, more than 120 outstanding Missouri food producers and artisans, and entertainment for the entire family. See page 7 for details.

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MISSOURI BOTANICAL GARDEN

bulletin

November/December 2006 Vol. 94, No. 6

Christmas

held over till January 1.
See page 11 for details.

From the President...

photo by Michael Jacob

The holidays are always an exciting season at the Garden, and this year's no exception. We're pleased to announce that *Glass in the Garden* will be held over though January 1 by popular demand. This extension will, we hope, allow our members plenty of time to purchase tickets online for repeat visits with friends and family.

Speaking of online tickets, 2006 marks the first year that our annual holiday flower and train show, *Gardenland Express*, will offer advance timed tickets online. Now you can be sure you'll have a space at *Gardenland Express*, even during those peak weekend and holiday times.

Every year the Best of Missouri Market® signals the arrival of fall to the Garden. The Market had a record-setting attendance of nearly 25,000. Our heartfelt thanks and appreciation go to Nora Stern and Ellen Dubinsky for their continued leadership of this signature Garden event.

The Garden awarded its highest honor, the Henry Shaw Medal, to Jack Dangermond and Geoffrey Rausch, pictured at right. And, in an issue packed with more news than ever, I call your attention to the achievements of our five newly named Senior Vice Presidents, who together represent over 60 years of service to the Garden. Our thanks to all of these dedicated individuals who are committed to the Garden's future.

Very soon, Garden members will receive information regarding our year-end appeal. This fund provides annual support for the Garden's on-going operating needs, particularly care of the beautiful 79 acres you enjoy during each visit. I hope you will consider a year-end contribution to help the Garden.

See you on the grounds,

Peter H. Raven

Dr. Peter H. Raven, *President*

To discover and share knowledge about plants and their environment, in order to preserve and enrich life.

–mission of the Missouri Botanical Garden

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OCT 31 2006
GARDEN LIBRARY

News

What's growing on at the Garden

photo by Josh Monken

Dr. Peter H. Raven and Scott Schnuck present the Henry Shaw Medals to Jack Dangermond and Geoffrey Rausch.

Henry Shaw Medal Awarded

One of information technology's most important businessmen and the master planner of the modern-day Missouri Botanical Garden have received the Garden's highest honor, the Henry Shaw Medal. On Wednesday, September 13, president Dr. Peter H. Raven and chairman of the board Scott Schnuck presented awards to Dr. Jack Dangermond and Geoffrey L. Rausch during the annual Henry Shaw Dinner. Awarded since 1893 and named for the Garden's founder, the medal honors those who have made a significant contribution to the Missouri Botanical Garden, botanical research, horticulture, conservation, or the museum community.

Founder and president of ESRI of Redlands, California, **Jack Dangermond** has pioneered innovative software solutions for working with spatial data from desktop to field to web. Founded in 1969, ESRI is today the industry-acknowledged leader in geographic information system (GIS) software, with over one million users in more than 300,000 organizations worldwide. The software is used widely by the Missouri Botanical Garden to track and map plant distribution. Dangermond graduated with a bachelor in environmental science from California State Polytechnic University. He holds a Master of Science degree in urban planning from the University of Minnesota and a Master of Science degree in landscape architecture from the Graduate School of Design, Harvard University.

Geoffrey Rausch, a fellow of the American Society of Landscape Architects, is a senior partner of M·T·R Landscape Architects in Pittsburgh, Pennsylvania. He specializes in the design and master planning of botanic gardens and has worked on over fifty renowned botanical gardens and arboreta nationwide, including the Missouri Botanical Garden, Chicago Botanic Garden, and the U.S. National Arboretum. Rausch has been honored with the Merit Award for Garden Design by the American Public Gardens Association. He received his degree in Landscape Architecture from Ohio State University in 1962 and was awarded a Dumbarton Oaks Fellowship. Prior to forming M·T·R in 1999, he was a partner with Environmental Planning and Design for 25 years.

NSF Grant to Garden "LIONS"

The National Science Foundation has awarded a three-year, $684,529 grant to the Missouri Botanical Garden in support of the "LIONS: Local Investigations of Natural Science" project. The Garden will develop hands-on, after-school programs aimed at enriching math, science, and technology learning for fifth- through eighth-graders in the University City School District. Dr. Bob Coulter, who has worked for the Garden's Education Division for eight years and was appointed Senior Manager of the Litzsinger Road Ecology Center (LREC) in April 2004, will serve as project director. (The LREC is a private, environmental education site located in Ladue, Missouri, and managed by the Missouri Botanical Garden.)

Schools Going Solar Award

The Garden's EarthWays Center has won the 3rd Annual Inspiring Education Award for its role in the "Missouri Schools Going Solar" program. A partnership of AmerenUE, the Missouri Department of Natural Resources, and the EarthWays Center, the program works with 16 schools throughout the state to install a one-kilowatt photovoltaic (solar) array on school grounds and to provide guidance in incorporating energy efficiency and conservation topics into current courses of study. The award was presented by the Midwest Energy Efficiency Alliance.

photo by Josh Monken

Senior Vice Presidents Named

The Garden's newly named Senior Vice Presidents represent over 60 years of service to the Garden. *From left: Sharon Mertzlufft (Institutional Advancement), Dr. Robert Magill (Research), Peggy Lents (Communications), Paul Brockmann (General Services), and Sue Wilkerson (Human Resource Management).*

News *continued*

photo by Jay Willhite

A Fox in the Garden

Several visitors have spied a very special guest in the Garden: a fox. According to wildlife biologist Tom Meister of the Missouri Department of Conservation, the red fox (*Vulpes vulpes*) population has declined in Missouri over the last three decades. However, as habitats are fragmented into smaller parcels and cities edge closer to natural areas, more foxes are "headed for town."

While foxes are typically not dangerous, they are wild animals and should never be approached or fed. Their diet is typically small rodents, insects, and some plants. Feeding them foods that are not part of their natural diet can make them sick, cause them to lose their fear of humans and their instinct to forage for wild foods.

So what should visitors do if they encounter a fox in the Garden? "Enjoy an exciting reminder of the beauty and diversity of our wild neighbors," says Tom, "and leave them in peace."

Chinese Garden Mosaic Repair

Visitors to the Grigg Nanjing Friendship Garden this fall will enjoy newly renovated pebble mosaics. In September, renowned mosaic artist Sharon Von Senden, one of HGTV's "modern masters" and mosaic artist of the St. Louis City Museum, visited the Grigg Nanjing Friendship Garden to conduct repairs.

Despite periodic maintenance and repair, the pathway mosaics throughout the Chinese Garden (installed 1996) were ready for a complete overhaul. Working with a colleague, Von Senden completed the on-location path repairs in a matter of weeks, but additional time was required to allow the mosaics to harden properly. The largest mosaic, the yin/yang symbol was remade off-site and reinstalled at the end of the month. Don't miss the newly resplendent Chinese Garden this fall, with restored mosaics of plum blossoms, peonies, birds, and new additions of Chinese perennials, and abundant mums.

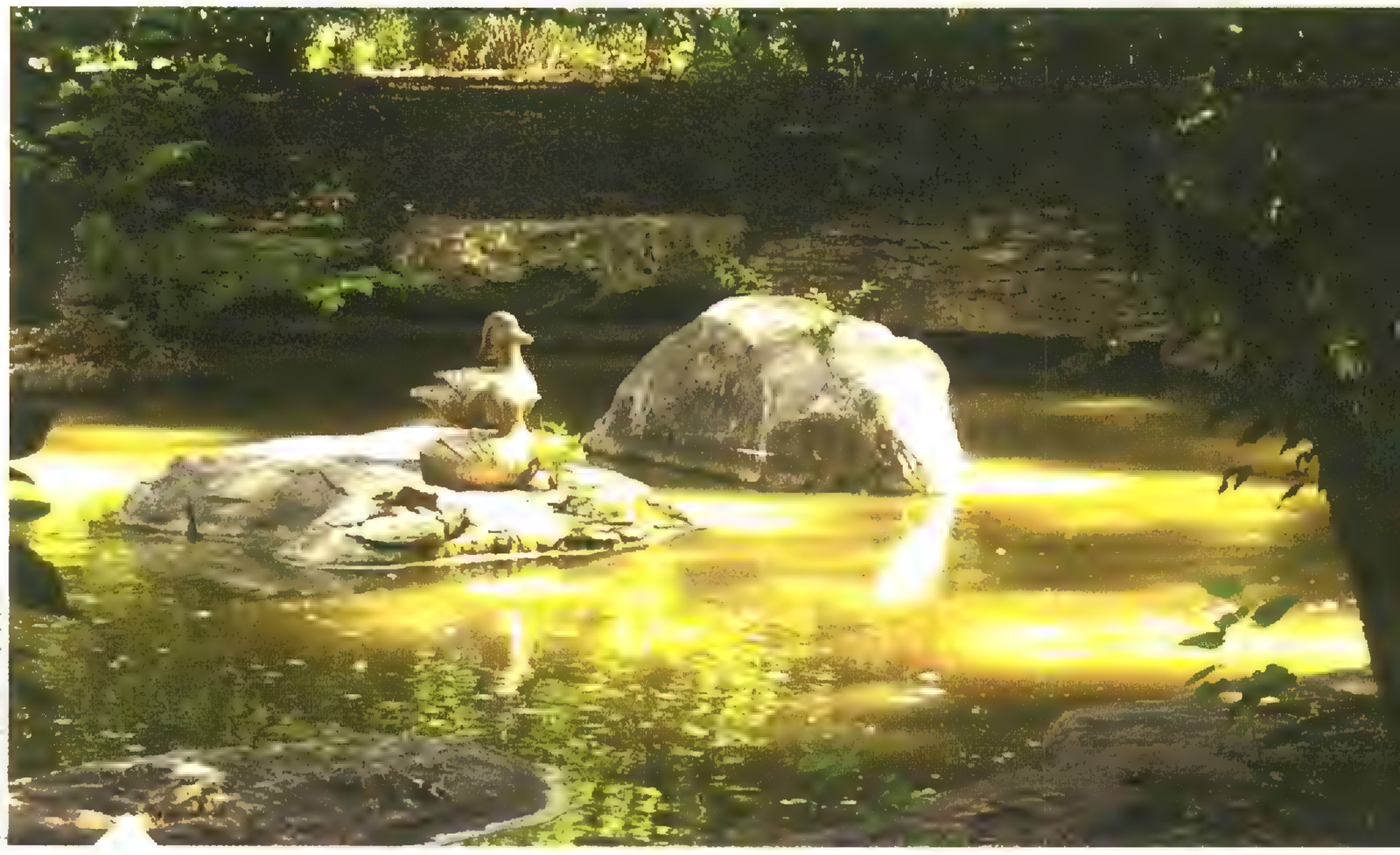


photo by Laura Meyer

Bertha Berghoefer Pfautch Glade

Especially beautiful in fall, the newly completed Bertha Berghoefer Pfautch Glade was named by Garden trustee Roy Pfautch in memory of his mother. The glade features a walkway of paving stones to guide visitors through the west end of the English Woodland Garden around a central water feature with a centerpiece of bronze wood ducks through to the Japanese Garden. Benches throughout offer peaceful enjoyment of the landscape of hostas, boxwood, azaleas, rhododendrons, and dogwoods, with beautiful views of the stream leading into the east waterfall of the Japanese Garden. Surrounding plantings include Japanese maples, oakleaf hydrangea, and viburnums, which are especially colorful in fall.

photo by Sarah Greene

Librarian Doug Holland reviews the Chinese artworks with Garden researcher Nicholas Turland.

Library Receives Donation

Recently Aaron Liston, the herbarium curator at Oregon State University, made an interesting discovery: a stack of 510 plant illustrations hidden in an old wooden cabinet. They were determined to be the original plates, credited to "Dr. C. S. Fan and other able Chinese colleagues," from Albert Steward's *Manual of Vascular Plants of the Lower Yangtze Valley, China.* The book was written on collecting expeditions prior to World War II and the subsequent closure of China. OSU and descendents of the author determined that the Missouri Botanical Garden Library would be the best repository for these unique works because of the Library's prominence as a center for botanical research and for the renowned, multinational *Flora of China* project.

"The illustrations are a great addition to our collection of botanical art," says Doug Holland, the Garden's Curator of Library Services. "And they still have important research value." Garden researcher Nicholas Turland is working with Holland to add scans of the artwork to the Tropicos database and the online version of the *Flora of China*, where they will supplement existing treatments and fill important gaps.

A Prickly Affair

Thursday, November 30, 6 to 8 p.m., Duane Reed Gallery, 7513 Forsyth Blvd.
The Garden boasts a magnificent collection of rare and beautiful cacti and succulents, but most are infrequently available for public viewing. Duane Reed Gallery, in conjunction with renowned photographer Michael Eastman, is hosting an opening and auction to benefit the future Desert House. The exhibit, "Succulent Palladiums," features large limited-edition palladium prints of cacti and succulents, several of which were photographed in the Garden's greenhouse. Tickets are $25; patron-level tickets are $100 and include a signed Eastman poster (a $100 value). For more information or to purchase tickets, call (314) 862-2333.

photo by Michael Eastman

Record-Setting Missouri Market®

The 15th annual Best of Missouri Market® was a record-breaking success, with attendance of 24,821 visitors. Co-founders and co-chairs, Ellen Dubinsky and Nora Stern have led the event since its inception. Special thanks to the many volunteers who worked at the Market and to lead sponsor, Schnuck Markets, Inc., as well as sponsors: Central States Coca-Cola Bottling Company, Commerce Bank, AgriMissouri, Edward Jones, IR Climate Control Technologies/Hussmann Corporation, McBride & Son Homes, UniGroup, Inc., Waterway Gas and Wash, Macy's Midwest, and U.S. Bank. Additional thanks to KMOX, Great Harvest Bread Company, Home Depot, Ronnoco Coffee, and the Girl Scout Council of Greater St. Louis.

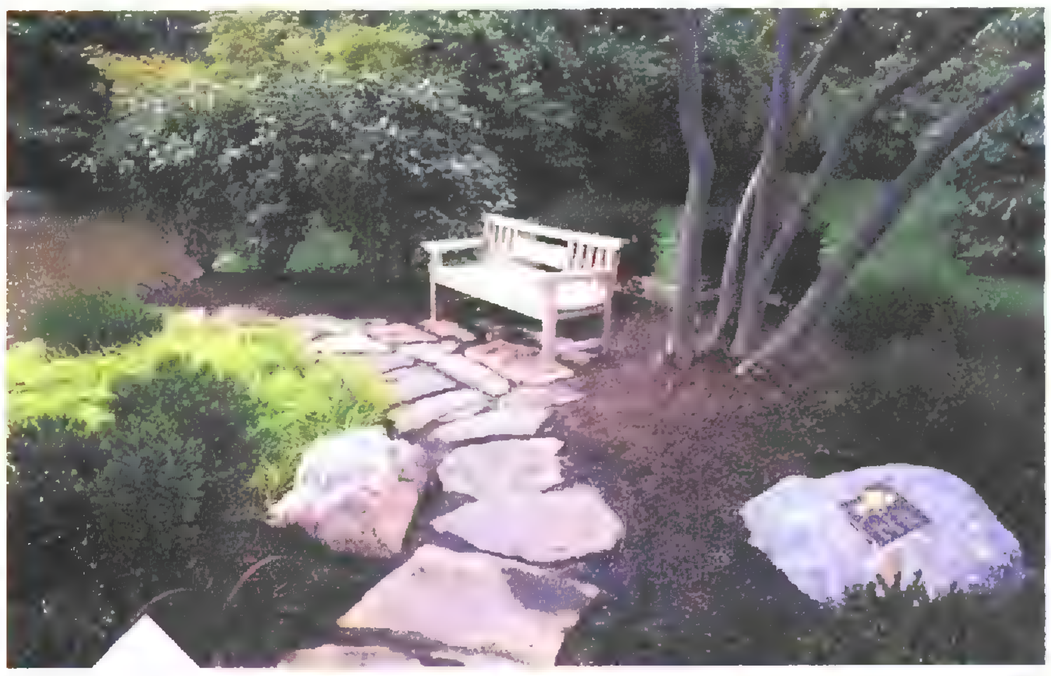


photo by Jack Jennings

Elizabeth Danforth Memorial

The new Elizabeth "Ibby" Danforth Memorial has been dedicated in the Japanese Garden. Washington University Chancellor Emeritus William H. Danforth, a recipient of the Garden's highest honor, the Henry Shaw Medal, donated the memorial in honor of his wife, Elizabeth "Ibby" Gray Danforth, who died of cancer on March 30, 2005. They enjoyed walking in the Garden together, and the new respite is located in one of her favorite areas. A stepping-stone path leads to a quiet bench surrounded by azaleas, boxwood, and Japanese maple cultivars beside the *Togetsukyo*, or flat bridge, in the Japanese Garden. Once seated, you may view children and families feeding the koi, Japanese carp symbolic of strength and courage.

Football and the Garden

The St. Louis Rams have utilized the team's tickets this year to showcase several St. Louis cultural attractions, including the Garden. On tickets to the November 26 game against the San Francisco 49ers, left tackle Orlando Pace (#76) appears against the backdrop of the Climatron conservatory. Visit the Garden Gate Shop soon to enter a drawing for two free tickets to a Rams game and an autographed mini-football helmet.

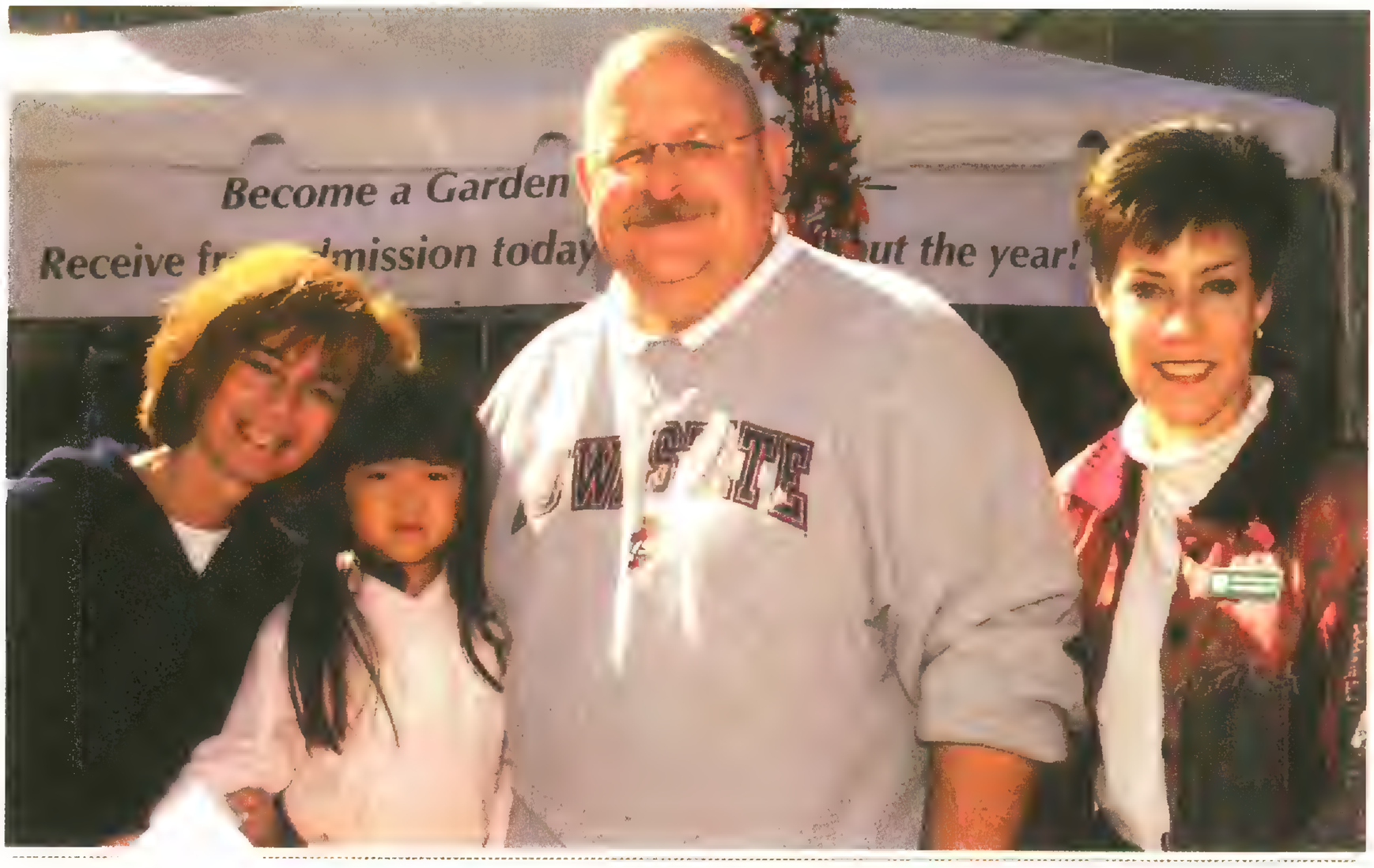


photo by Josh Monker

Bruce and Cindy Martin and their daughter Lily, pictured with Senior Vice President of Institutional Advancement, Sharon Mertzlufft.

Garden Welcomes its 40,000th Member!

On Saturday, October 7, 2006, the Garden officially enrolled our 40,000th member in one of the largest membership programs of any cultural institution in St. Louis and of any botanical garden in the nation.

The 40,000th member family includes: Bruce and Cindy Martin, and their daughter Lily, of Glen Carbon, Illinois. The Martins became members at the Best of Missouri Market on the single highest-attendance day in the event's 15-year history. They received a prize pack including an MBG tote bag, umbrella, fleece blanket, and free passes to the Children's Garden, *Glass in the Garden*, and *Chihuly Nights*.

Begun in 1939, the Garden's membership program—the "friends" of the Garden, as they were then known—was at first a relatively small group. When Dr. Peter H. Raven became director in 1971, the membership numbered about 2,000. By the 50th anniversary of the program in 1989 that figure had increased 10-fold. Milestones of membership include 20,000 members in April 1987, and 30,000 members just five years later in May 1992.

Member Appreciation Day

Tuesday, November 14, 9 a.m. to 7 p.m.
To celebrate the success of the Garden's membership program, November 14 has been proclaimed "Member Appreciation Day." All day long, from 9 a.m. to 7 p.m., Garden members will receive FREE daytime admission to the Chihuly exhibition *Glass in the Garden* (first come, first served; no timed tickets). All levels of members will also receive FREE admission to the Sophia M. Sachs Butterfly House (open 9 a.m. to 4 p.m.) in Faust Park, and a 20 percent discount in both the Garden Gate Shop and the Madame Butterfly Gift Shop. Thank you for helping to make the Garden a St. Louis treasure!

photos by Lisa Francis

Multiple trees down in the Japanese Garden (top) and white pines blown over on Spoehrer Plaza (below).

Storm Damage Update

Garden horticulturists are still working to repair damage wrought by the catastrophic storms the week of July 19, 2006, when a cluster of thunderstorms tore through the St. Louis area with winds of up to 80 mph. At current count, the Garden has lost 65 trees, mostly in the south end, with another 60 scheduled for broken branch repair. More trees may be identified for removal if natural autumnal defoliation reveals additional structural damage.

"It's the worst storm damage that any of my staff have ever seen, and some of them have worked here over 35 years," notes Vice President of Horticulture James Cocos. "In a typical bad storm, it's not unusual for the Garden to lose five to eight trees, so this was considerably worse than what we are used to experiencing."

Replanting will be a slow and thoughtful process. Sometimes the decision is made to leave the area open to allow more light in a landscape, or two or more smaller species may be planted where formerly one large tree stood. "The 'good' news," adds Cocos, "is that we can use these openings to introduce tree species that are under-represented." The bad news is that tree planting takes considerable time and expenditure.

The Year-End Appeal

In order to maintain the Garden, improve services offered to members, and respond to unexpected emergencies such as this year's July storms, we ask each year for contributions to the Henry Shaw Fund. This fund is our most important source for annual operating support. Won't you please consider making a tax-deductible gift as part of your charitable contributions for 2006? For information regarding the Henry Shaw Fund or to charge your gift by phone, please call (314) 577-9500.

Use Your IRA as Never Before

The recently passed Pension Protection Act of 2006 provides an attractive new way to donate to the Missouri Botanical Garden using IRA funds—while avoiding the income taxes typically paid on IRA withdrawals.

Under the new rules, if you are 70½ or older, you can donate up to $100,000 per year to the charitable organization of your choice—including the Garden—from your IRA without incurring either income tax or early withdrawal penalties. The provision applies to the 2006 and 2007 tax years only at this point, so it's important to leverage these benefits soon. This opportunity may be particularly attractive if you have accumulated significant assets in your IRA, as is true with many older Americans.

Looking for a way to have a lasting impact on the future of the Garden? Ask your tax advisor for more details on how PPA2006 may benefit you, your family, and the Garden. Or contact Rachel Hartmann, Director of Planned Giving at the Garden, by calling (314) 577-9455 or by e-mail to rachel.hartmann@mobot.org.

photo by Jennifer Smith

Events

Special for members...

Yuletide Décor

Thursday, November 9, 11 a.m., Ridgway Center

Join the area's most festive floral designer, Dean Riebeling, co-owner of Botanical Design Studios, as he shows us how to transform ordinary sticks and holly into fabulous holiday decorations.

Breakfast with Santa

Saturday, December, 2, 8 to 10:30 a.m., Sassafras

Create a holiday craft and enjoy breakfast, when Santa makes his yearly stop at the Garden. Bring a new pair of mittens or a child's hat to donate to charity. Menu includes waffles, scrambled eggs, bacon, hash browns, biscuits, and mini-pastries, served with milk, orange juice, and coffee. Tickets are $16 per person; children under 2 are free. Seating is first come, first served. Reservations required; please call (314) 577-9570.

Lift Every Voice Holiday Concert

Saturday, December 9, 1 p.m., Ridgway Center

Choral music is a hallmark of the holiday season. Join us as the St. Louis Metro Singers, an 80-voice ensemble, return to perform a holiday concert at the Garden. Seating is first come, first served.

Tower Grove House Auxiliary Holiday Luncheons

December 8 & 14, noon, Spink Pavilion

The Tower Grove House Auxiliary will hold two holiday luncheons. Tickets are $25 each, and include admission to Tower Grove House and the *Gardenland Express* flower and train show. Proceeds benefit Tower Grove House. To make reservations (required), call (314) 577-9570 by December 1 for the 8th, and by December 7 for the 14th.

Give the Gift of Garden Membership

Garden membership makes a wonderful—and convenient—gift. This holiday season, members may purchase regular- and senior-level gift memberships at a 20 percent discount during the Garden Gate Shop holiday sales (November 1-5 and December 6-10). In addition to all the wonderful benefits of Garden membership which can be enjoyed throughout the year, the lucky recipient of this gift will have their choice of a special gift as our way of welcoming them to the Garden. Visit our website or call (314) 577-5118 for more details, but please note: discounts apply to on-site sales only.

Price with discount: regular membership $48; senior membership (age 65 and older) $44.

gift of the GARDEN

Go West, Gardenland Express!

November 22 to January 1

The Garden's holiday flower and train display travels cross-country in miniature this year, from the Gateway Arch to the Hollywood Hills with *Gardenland Express* "Gateway to the West." Creating all the little details "is the fun part," says Pat Scace, floral display designer, who is assisted in the process by a team of fellow horticulturists and volunteers.

One of St. Louis's favorite holiday season destinations, *Gardenland Express* features eight G-scale model trains from the 19th century to the 1960s chugging through a mini-landscape of living plants. Garden horticulturists utilize dwarf conifers, miniature ground covers, and a wide variety of annuals and succulents to create the scenery. Trains cross farmland and mountains, detour through "fabulous Las Vegas," then reach Southern California, where the famous Hollywood sign rises from a hillside of foliage. Vignettes are surrounded by amaryllis, begonia, cyclamen, New Guinea impatiens, and hundreds of poinsettias—including some of the newest poinsettia cultivars.

Experts on hand: A floral display designer will be at the show every Wednesday from 2 to 3 p.m. to answer your questions. On Saturday, November 25 and December 9, a volunteer from the Museum of Transportation will answer train-related questions. (Keep your Garden admission ticket and present it at the Museum of Transportation for $1 off general admission.)

Members' Preview, Wednesday, November 29, 5 to 8 p.m.: Don't miss this members-only party and magical evening viewing of *Gardenland Express*. Cash bar, musical entertainment, special holiday menu in Sassafras, and holiday shopping in the Garden Gate Shop, where Jeff Guinn, author of the bestseller *The Autobiography of Santa*, will sign copies of his new book *The Great Santa Search*. Tickets not required.

NEW: Timed Tickets Required

Gardenland Express admission is by timed ticket *only*. Advance purchase is highly recommended, as sell-out times are expected. Garden members receive free admission to the show (for themselves and a guest), but must still obtain timed tickets. Free members' tickets are available in advance at the Garden's ticket counter or may be purchased online at the Garden website for a $1 per-ticket processing fee. *Chihuly Nights* ticket-holders may also view *Gardenland Express* for an additional fee.

Gardenland Express: Gateway to the West Holiday Flower and Train Show

Wednesday, November 22 to Monday, January 1 (Closed December 25)

Hours:

9 a.m. to 5 p.m.; see page 11 for *Chihuly Nights* details.

Admission:

$3 in addition to general Garden admission; free for Garden members.

Timed tickets required. Advance purchase is recommended onsite or online (processing fee may apply).

Sponsors: CBIZ Accounting, Tax & Advisory/Mayer Hoffman McCann P.C.; Central States Coca-Cola Bottling Company; Marian L. Herr; and Southwest Bank of St. Louis.

Gardenland Fun Facts

- **Square-foot area:** 5,000
- **Feet of brass track:** 2,000
- **Potted plants:** 850
- **Percentage of plants grown in Garden greenhouses:** 90
- **2005 show attendance:** 35,668

Events *continued*

Christmas Carols in the Garden

Saturday-Sunday, December 16–17, 1 to 5 p.m., Garden grounds

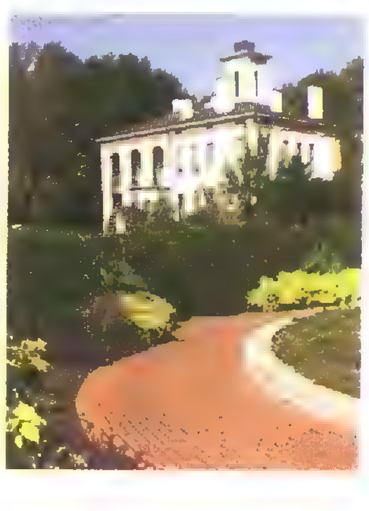
Chestnuts roasting on an open fire; jackfrost nipping at your nose; yuletide carols being sung by a choir…it's all here at Christmas Carols in the Garden. Musicians fill the Garden with sounds of the season, and Santa will be on hand to hear holiday wishes. View a display of gingerbread houses and our 15-foot balsam fir decorated entirely with dry flowers. Henry Shaw's country home will be open and decorated in Victorian holiday fashion. Festive food and drink will be available for purchase, and the Garden Gate Shop will be open for holiday shopping.

Admission: $10 adults 13+; $7 seniors 65+; $3 children 3–12; $3 Garden members; free for members' children 12 and under. Family-level members and above are free.

Holiday Wreath Display

Throughout the holiday show, Ridgway Center

This year's wreath display will feature the work of: A Rose Is A Rose, Pick Flower Gallery, Botanicals Design Studio, Twigs and Moss, The Bug Store, Randy Felkey Florals, Kirkwood Florist, Ladue Florist, Dale Rohman Enterprises, Schnucks Floral Design Center, and more. Silent auction benefits the Garden.



Victorian Christmas at Tower Grove House

Henry Shaw's country house seems almost to have been designed with the holidays in mind. Reinstating a tradition that has been missed since the house closed for reinterpretation in 2003, area garden clubs are working with the Tower Grove House Historical Committee and the Garden's Members' Board to deck the halls once more. Volunteers will hang wreaths in long-shuttered windows, wrap pine roping round the banisters, and deck the mantels with greens. All the nooks and crannies of this ample Victorian house will feature reminders of the season, and docents will relate stories of Shaw's Christmas season celebrations.

Hours: *Throughout the holiday show, Saturday 10 a.m. to 4 p.m.; Sunday 1 to 4 p.m.; weekdays 11 a.m. to 3 p.m.; closed Mondays.*

Admission: *$3; free for members.*

Chanukah Festival of Lights

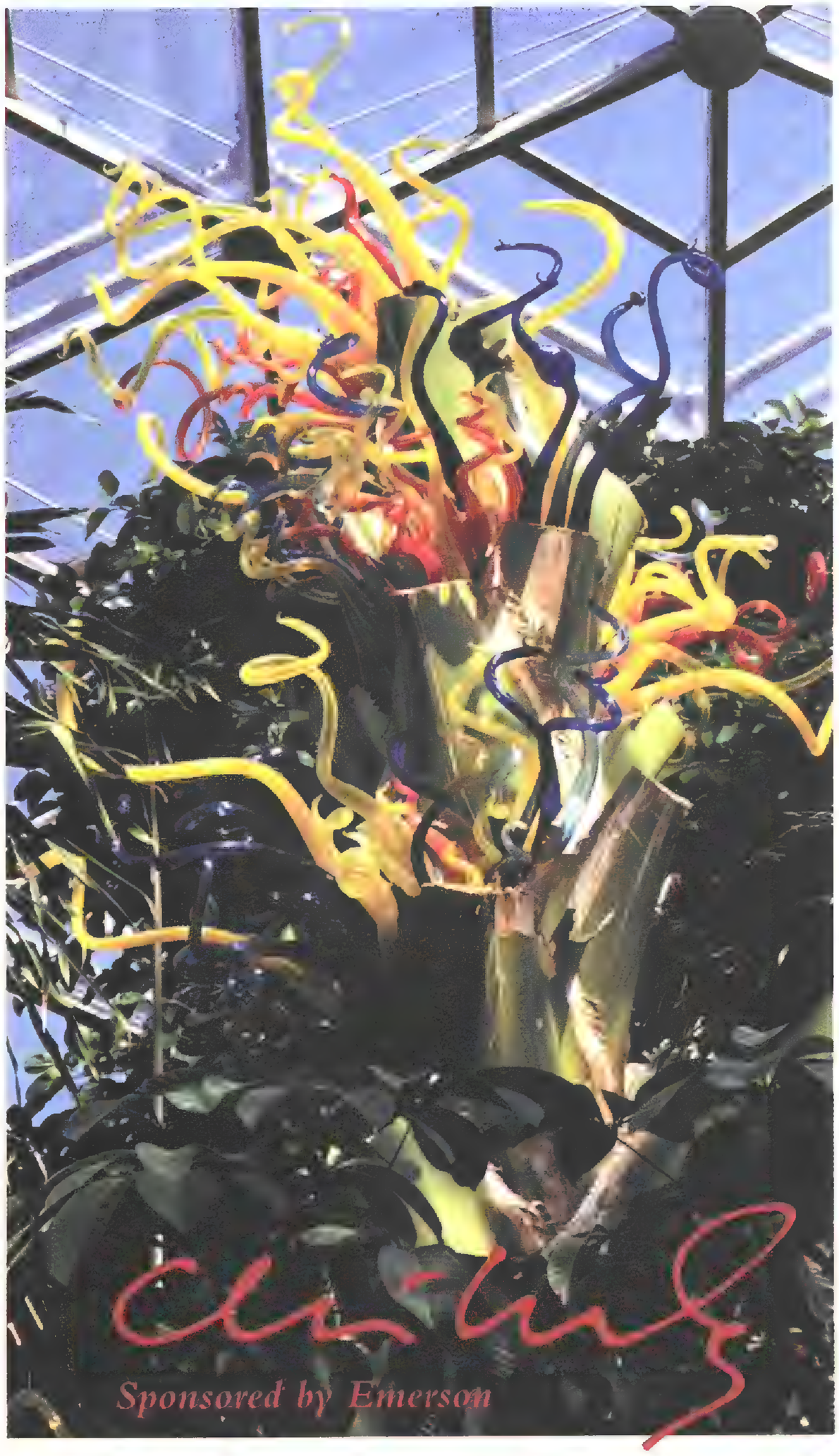
Sunday, December 10, noon to 4 p.m., Ridgway Center

Festive music, menorah-lighting, storytellers, and musicians recount the story of the miraculous oil lamp. The Garden Gate Shop will feature Chanukah merchandise.

Kwanzaa First Fruits

Wednesday, December 27, noon to 4 p.m., Ridgway Center

Celebrate the first fruits of African-American heritage and culture with storytelling, craft and jewelry vendors, and an authentic African drumming musical performance.



Dale Chihuly. *End-of-the-Day Palm Tree*, 2006. Photo by Terry Rishel.

Glass in the Garden Hours and Admission

Now through Monday, January 1, 2007

Daytime hours: 9 a.m. to 5 p.m., last entry is at 4:30 p.m.

Daytime admission: Friday through Sunday: $12-16 and Monday through Thursday $10-14 (includes Garden admission); Members and children 12 and under: $3. Closed December 25.

Members' free mornings: Tuesdays, 9 to 11:30 a.m. on November 7, December 5, 12, 19, and 26.

Chihuly Nights: Mondays and Thursdays, 5:30 to 10 p.m. (except Thanksgiving, Christmas, and New Year's Day), with additional nights December 26, 27, 29, and 30

Night admission: $15; $10 for Garden members. For an additional fee, *Chihuly Nights* ticket-holders may also see *Gardenland Express*.

Chihuly Held Over!

By popular demand, *Glass in the Garden: Chihuly at the Missouri Botanical Garden* will continue through the holidays. Originally scheduled to close on October 31, the exhibition will now be extended through Monday, January 1, 2007, with extended evening viewing the week after Christmas.

The Garden is the first venue to feature Chihuly glass sculptures in cold weather. To prepare, artisans from Chihuly Studios visited the Garden October 24-27 to winterize outdoor portions of the exhibition, disassembling the boat sculpture, for example, in order to re-seal its components. The indoor exhibition was also refreshed.

As the days grow colder and forced-air heat dries out homes, visitors will enjoy the lush, lowland rain-forest environment of the Climatron® conservatory even more. Daytime temperature is a constant 85 degrees F inside, with 85 percent humidity. Over 1,500 fragrant and beautiful tropical plants will be growing and blooming around the Chihuly installations within.

Chihuly Nights with music, night lighting, and live glass-blowing demonstrations, will continue every Monday and Thursday, 5:30 to 10 p.m., except Thanksgiving, Christmas, and New Year's Day. Additional holiday *Chihuly Nights* have been added December 26, 27, 29, and 30. *Chihuly Nights* ticket-holders will also be able to purchase admission to *Gardenland Express* via a separate timed ticket. A festive holiday atmosphere will prevail, with hot cocoa and cookies available for purchase in Sassafras, along with appetizers and alcoholic beverages.

New Members' Free Mornings!

Garden members will now enjoy free Tuesday mornings every Tuesday in December! Member and guest will be admitted free from 9 to 11:30 a.m. on Tuesdays, November 7, December 5, 12, 19, and 26. Members continue to receive substantial discounts on other tickets: $3 daytime admission (compared to $12-16 for the public) and $10 for *Chihuly Nights* (a savings of $5 per ticket).

Members: Purchase Tickets Early

Advance purchase of tickets is strongly recommended for *Chihuly Nights*, as sell-out events are expected. Tickets are nonrefundable and valid rain or shine. Bonus Bloom passes are not accepted. Purchase your advance tickets onsite at the Garden's ticket counter during your next visit. Or call the members' ticket line: (314) 577-5152. Or visit the Garden's website: www.mobot.org. Remember: the members' password is: henryshaw.

Putting the Children's Garden to Bed

Sunday, November 5, 10 a.m. to 2 p.m., Doris I. Schnuck Children's Garden
Finn the Frog is throwing a pajama party—and you're invited! Join us in the Doris I. Schnuck Children's Garden for family fun activities as we put the Children's Garden to bed for the winter. Wear your pajamas and prepare to celebrate this special time of year. We'll explore:

- How animals prepare for winter, be it burrow, nest, or hive; and identify good sites for animal homes in the Children's Garden and your own backyard.
- How humans and animals use plants as food. Play with puppets and see which nuts, seeds, and foods animals store for winter. Sample some healthy winter treats and learn how pioneers prepared for a long winter on the prairie.

All children must be accompanied by an adult. Young visitors will be invited to help prepare for spring by planting a daffodil bulb in our garden, and by potting one to take home (while supplies last). When the daffodil blooms at home, it will be time to visit the Doris I. Schnuck Children's Garden again!

Bulbs donated by the Netherlands Flower Bulb Information Center/North America.

Narcissus 'Tahiti'

The daffodil we'll be planting in the Children's Garden is a 2007 Plant of Merit. It is fragrant and double-flowering, with yellows and oranges bursting from the center. This 12–14 inch tall perennial is weather-, deer-, rabbit-, and squirrel-resistant.

gift of the GARDEN

Give the Gift of Good Health to a Senior

Offered through the Garden's innovative Therapeutic Horticulture Program, the Soule Senior Education Programs enrich the lives of senior citizens with limited resources and/or abilities. Garden instructors lead nature-based programs and gardening activities in creative ways to improve mental and physical health and well-being. Why not give the gift of the Garden to a senior in your life? For more information or to purchase gift certificates, call (314) 577-9506.

Amaryllis named in honor of Empress Josephine, wife of Napoleon. Illustration from Pierre Redouté's Les Liliacées *(Paris, 1813) from the Missouri Botanical Garden Library's rare book collection. To see more images, visit www.illustratedgarden.org.*

Holiday Sparkler: Amaryllis

Used as a name for pretty country maids in classical poetry dating back to Theocritus and Virgil, amaryllis derives from the Greek verb *amaryssein*, meaning to sparkle or shine. However, the oversize bulbs sold at holiday time which we call amaryllis, while beautiful, are not technically amaryllis at all.

The genus *Amaryllis* is "monotypic," meaning there is but one species in it: *Amaryllis belladonna*, native to South Africa. Visitors to the Garden may see an example of this true amaryllis inside the windows of the Linnaean House, but these bulbs are not suitable for forced culture.

Hippeastrum (hip-ee-AS-trum), on the other hand, is a genus of new-world subtropical and tropical species from Central and South America. They grow well outdoors in warm climates throughout the world and are important commercially for their forced or conservatory interest. The name is Latin for "knight's star," referring to the star-shaped flowers and the vaguely equine flower buds. Nonetheless, they continue to be commonly called "amaryllis."

Today, these hippeastrum/amaryllis are the result of 300 years of selective hybridizing by Dutch flower-growers. Like many other plants, they have seen popularity wax and wane over the years, but at the moment, they are experiencing a renaissance of interest, especially as smaller and more colorful hybrids are created.

continued on page 14

Amaryllis/Hippeastrum Trends

Q&A with the Garden's bulb expert, senior horticulturist Jason Delaney. The bulbs commonly called amaryllis are correctly called hippeastrum. *See page 13 for explanation.*

What's hot in hippeastrum hybrids?
Tea cup or miniature types, which are so small they could grow in a tea cup, are the hottest at the moment, and as such, are still rare in the commercial trade. Cybister hybrids are also very popular for their very exotic and starry flowers of reds, greens, creams, and maroon colors, often manifesting together on one very wild-looking flower. Double-flowered types of all sizes and colors are also becoming more popular as newer hybrids with increased stem strength and vigor are becoming available. Yellow, green, and deep maroon-red ("black") are the hot colors right now in the standard-sized types.

Home gardeners often grow forced hippeastrum at the holidays. What should they do with those plants post-Christmas?
Common practice would be to dig and dry the bulbs during the summer for forcing in the fall and early winter. However, a well-exercised cultural practice here at the Garden is to keep hippeastrums "evergreen" or in growth year-round. Unpot and plant the bulbs in the ground in late May or early June, in full to partial sun, keeping them watered and fertilized with liquid feed throughout the summer. In late autumn (October), lift and repot, trim only the dying foliage, and keep growing in a sunny windowsill all winter, repeating the cycle the next summer.

Hippeastrum colors:
red, pink, orange, salmon, white, yellow, and pale green, many with different colored stripes or patterns.

Hippeastrum forms:
single, double, miniature, cybister (or spider), and trumpet.

By doing this, the home gardener vastly increases the odds of getting multiple blooming scapes and blooming cycles throughout the year, not just during the winter holiday season. We have hippeastrums flowering in our bulb garden displays throughout the summer. They will reach their peak indoors from December through February, and start again after planting outdoors next May.

The one exception to this cultural practice would be for *Hippeastrum papillio*, or the Butterfly amaryllis, a species that is sold as an "evergreen." Ironically, this is the one type that actually responds much *better* to being dried off than staying in growth. If kept evergreen, it rarely flowers, producing nothing but copious and lush foliage. When dried off, however, the stress factor initiates flowering of one of the most beautiful amaryllis available.

For more information, visit the website of the International Bulb Society, formerly the American Amaryllis Society, at www.bulbsociety.org.

Growing *Hippeastrum* for the Holidays

Tips from the Garden's senior indoor horticulturist, Steve Wolff, who, along with the production greenhouse staff and volunteers, grows the many flowering plants needed for Gardenland Express.

Pot hippeastrum (commonly—but erroneously—called "amaryllis") bulbs in early to mid-November for bloom during the Christmas holidays.

Purchase bulbs that are firm to the touch and greenish-white with thin brown outer "paper" like an onion. Avoid purchasing overly dried-out or moldy bulbs.

Unlike crocus, tulips, or daffodils, hippeastrum do not require a period of winter to trigger growth. A bulb straight from the store is basically ready to sprout.

1. Select a pot only 1 to 2 inches wider than the diameter of the bulb. The pot may be ceramic, clay, or plastic, but must have drainage holes.
2. Plant the bulb in good potting soil, leaving the upper half of the bulb exposed.
3. Water well and place in a warm (70 degrees F) location. Keep the soil moist, but not wet.
4. When growth appears, move the plant to a sunny window and apply fertilizer every 2 to 4 weeks. Turn the pot each day, or stake the stalk, to keep it growing straight.
5. Flowering should occur 4 to 6 weeks after potting. When it begins to bloom, move the plant to a slightly cooler location that doesn't receive direct sun to prolong the life of the flowers.

What to do in your garden now...

clip and save

photo by Ryan Rumbarger

November

all month

- ❑ Prevent insects or diseases from overwintering by removing and composting all plant debris. Till under any unused, finished compost to improve soil and expose insect pests to winter cold.
- ❑ Continue watering evergreens until the ground freezes.
- ❑ Now is the ideal time to plant trees and shrubs. Prepare the site by loosening the soil well beyond the drip line of each plant. Plant no deeper than the depth they grew in the nursery. Remove all wires, ropes, and non-biodegradable materials from roots before back filling. Apply a 2–3 inch mulch layer, but stay several inches away from the trunk. Keep the soil moist to the depth of the roots.
- ❑ Remove the spent flowers and foliage of perennials after they are damaged by frost.
- ❑ Collect soil samples to test for pH and nutritional levels.
- ❑ To prevent injury to turf grasses, keep leaves raked up off of the lawn. Continue mowing lawn grasses as long as they keep growing. A final fall application of fertilizer can be applied to bluegrass and fescue lawns now.

week 1

- ❑ Plant tulips now.

week 2

- ❑ Newly planted broadleaf evergreens such as azaleas, boxwood, and hollies benefit from a burlap screen for winter wind protection. Set screen stakes in place before the ground freezes.
- ❑ Be sure to shut off and drain any outdoor water pipes, hoses, or irrigation systems that may freeze during cold weather.
- ❑ Rake up and collect fallen leaves. These can be plowed under directly to enrich garden soils or allowed to decay in large piles.
- ❑ Set up bird feeders. Birds appreciate a source of unfrozen drinking water during the winter.

week 3

- ❑ Root crops such as carrots, radishes, turnips, and Jerusalem artichokes store well outdoors in the ground. Just before the ground freezes, bury these crops under a deep layer of leaves or straw. Harvest as needed during winter by pulling back this protective mulch.
- ❑ Mulch strawberries for winter with straw. This should be done after several nights near 20 degrees, but before temperatures drop into the teens. Apply straw loosely, but thick enough to hide plants from view.
- ❑ House plant basics for winter: reduce or eliminate fertilizer until spring. Shorter days mean slower growth. Slower growth means less frequent watering. Plants in plastic pots need less water than those in clay pots. Plants in cooler rooms need less water and grow slower than those in warm rooms.

week 4

- ❑ Cover garden pools with bird netting to prevent leaves from fouling the water. Oxygen depletion from rotting organic matter can kill pond fish. Take steps to prevent garden pools from freezing solid in winter. Covering pools with an insulating material, or floating a stock tank water heater in the pond, will lessen the chance of ice damage.
- ❑ Roses should be winterized after a heavy frost. Place a 6–10 inch deep layer of mulch over each plant. Topsoil works best. Prune sparingly, just enough to shorten overly long canes. Climbers should not be pruned at this time.
- ❑ Mulch flower and bulb beds after the ground freezes to prevent injury to plants from frost.

photo by Lisa Hanes

December

all month

- ❑ On cold nights, move houseplants back from icy windows to prevent chilling injury. Overwintering geraniums like bright light and cool temperatures. Keep soils on the dry side. Water houseplants with tepid water. Cold tap water may shock plants.
- ❑ Be sure the root zones of azaleas and rhododendrons are mulched. Oak leaves, shredded oak bark, or pine needles are preferred.

week 1

- ❑ Clean and oil garden hand tools before storing for winter. Power equipment should be winterized before storage. Change the oil and lubricate moving parts. Either drain fuel systems or mix a gas stabilizing additive into the tank.
- ❑ Apply mulches to bulbs, perennials, and other small plants once the ground freezes.
- ❑ If you feed rabbits corn or alfalfa, they may leave fruit tree bark unharmed.

week 2

- ❑ Holiday poinsettia basics: sun for at least half the day, keep away from drafts, registers, and radiators. Night temperatures in 50s or low 60s; days at 70 degrees. The soil should dry only slightly between thorough waterings. Discard the drainage. Be sure to punch holes in decorative foil wraps to prevent soggy soil conditions.
- ❑ Hollies may be trimmed now and the prunings used in holiday decorations. Only female holly trees bear the colorful berries. If fruits are desired, a male tree must be growing nearby for pollination.
- ❑ Christmas trees hold needles longer if you make a clean, fresh cut at the base and always keep the trunk standing in water.

For additional information on plant care and gardening:

- ***visit the Wm. T. Kemper Center for Home Gardening***
- ***call the Horticultural Answer Service, Monday through Friday, 9 a.m. to noon, at (314) 577-5143.***
- ***check out the Gardening Help section at www.mobot.org***

Featured Plant of Merit

Magnolia virginia var. australis
Southern Sweet Bay

Native to the southeastern U.S., this magnolia may be cultivated as far north as St. Louis, but typically grows smaller than farther South, becoming either a 15-20' tree or a shorter, multistemmed shrub. Sweetly fragrant flowers appear midspring. Shiny green foliage is silvery beneath and semi-evergreen here. Cone-like fruits with bright red seeds mature in autumn and can be showy.

Plants of Merit™ are selected by regional horticulture experts for outstanding qualities and dependable performance in the lower Midwest. View all current PMs on the website: www.plantsofmerit.org

www.mobot.org gardenghelp plantfinder

Garden at large: *Butterfly House*

At the Monarchs, Moonlight, and Music event: Butterfly House Director Joe Norton and his wife Monica; co-chair Elizabeth Sankey (husband Rob not pictured); Drs. Peter H. and Patricia Raven; co-chairs Laura and Paul Shaughnessy.

Thank You

Thank you to our sponsors, donors, and guests for making our fall fund raiser—Monarchs, Moonlight, and Music—a wonderful success. The event was co-chaired by Laura and Paul Shaughnessy and Beth and Robert Sankey, with Debbie Harris as auction chair, and Paula Lampen and Janet Lange as decorating chairs.

Blue Morpho Sponsors: BSI Constructors Inc.; Merrill Lynch; Mrs. Clifford W. Murphy; and Pfizer Inc.—St. Louis Laboratories. ***Swallowtail Sponsors:*** Dr. and Mrs. Ira C. Gall and Sachs Properties, Inc. ***Monarch Sponsors:*** Anonymous; Bellwether Foundation, Inc.; Mr. and Mrs. James G. Berges; Mr. and Mrs. Van-Lear Black, III; Brentwood Travel Service, Inc.; Charles E. Jarrell Contracting Company, Inc.; Dr. William H. Danforth; The Delmar Gardens Family; Mr. and Mrs. Harvey A. Harris; Mr. and Mrs. Melvyn Lefkowitz; Mrs. Don C. Musick, Jr.; Mr. and Mrs. Eric P. Newman; Dr. and Mrs. Marvin Rennard; Mr. and Mrs. Robert Sankey; Dr. and Mrs. Jules M. Snitzer; and the University of Missouri–St. Louis. ***Friends:*** Anonymous; Mr. and Mrs. C.A. Case, Jr.; Grand Rental Station; Mr. and Mrs. Brian L. Keck; Mrs. Lucy Lopata; and Mr. and Mrs. Neil E. Sellenrieck.

Butterfly House

15193 Olive Boulevard
Chesterfield, MO 63017
phone (636) 530-0076
fax (636) 530-1516
www.butterflyhouse.org

Closed January 1–15

The Sophia M. Sachs Butterfly House will be closed the first two weeks of January to perform maintenance and to put final touches on a new exhibit in the Grand Hall with species from the desert, grasslands, and the rainforest.

Greenhouse restored: *The last remaining Faust family greenhouse in St. Louis County's Faust Park is being restored by the Butterfly House for use as a facility for quarantine and propagation of plant species housed in the Tropical Conservatory.*

Sophia M. Sachs Butterfly House Pavers and Tributes

Looking for a unique gift that will last a lifetime? Consider an engraved butterfly-shaped paver in the entry court of the Butterfly House. Butterfly House pavers are an excellent way to honor people and commemorate special events. Tributes to the Butterfly House are noted in the *Bulletin* as well. To learn more about these opportunities, call (314) 577-0291 or go online at www.butterflyhouse.org and click on "Ways to Give."

Tributes and Pavers donated to the Sophia M. Sachs Butterfly House in July–August 2006.

Tributes

In honor of

Mr. and Mrs. Gerald McKinney
Mrs. Ruth Lacy
Mr. and Mrs. Senter

In memory of

Kellen Clausen
Darcy Clausen Family

Miss Amber Norton
Mr. and Mrs. Dan Muldoon

[illegible] Pohlmann
Jim and Mary Kramper

Mr. Fred Rottler
Dr. and Mrs. Jules M. Snitzer

Mr. Samuel Simowitz
Dr. and Mrs. Jules M. Snitzer

Ms. Tiffany Souers
Mrs. Teresa Crossland
Mr. and Mrs. David Moon
Mr. and Mrs. David Morley

Pavers

Alex Miller

Donna Straub

Eric Pip[illegible]
Sevil Kyazimova

Carol S[illegible]
Kenneth and Susan Bretthorst
Dave, Angela and Connor Gusky

Lisa Stef[illegible]
St. Louis Club

Nancy Suelflow
Anita Siegmund

Daniel and Carrie Winn
Grandma and Grandpa Thierry

Shaw Nature Reserve

Tree feller and delimber culls cedar at the Reserve.

Glade and Woodland Restoration

by James C. Trager, Restoration Biologist

Natural restoration at the Shaw Nature Reserve is often heralded as cutting edge, so we are pleased to announce a recent addition to our restoration tool kit: commercial selective logging. Yes, you read that right—logging!

Utilizing a large, yellow machine called a "tree feller and delimber," an operator grasps the base of a cedar tree, cuts it through, lays it down gently, strips off the limbs, and cuts it into even-sized lengths—all in matter of minutes. Far more efficient than the back-straining manual logging formerly carried out by Reserve staff, this selective logging is a win-win situation: the operator generates income on cedar products (mulch and veneer); and the Reserve receives income to cover the cost of oversight and any subsequent follow-up work. Though cedar trees are native to Missouri, they have in recent years undergone a population explosion and are today the main reason for the degradation of glade habitats.

SHAW NATURE RESERVE

Hwy. 100 & 44 (exit 253)
Gray Summit, MO 63039
phone: (636) 451-3512
www.shawnature.org

Closed December 2-3

The Shaw Nature Reserve will be closed to the public Saturday and Sunday, December 2 and 3, for annual maintenance.

Home for the Holidays

See Shaw Nature Reserve's Bascom House decorated inside and out for the holiday season. Wreaths, garlands, trees, ceramic villages, and more will be showcased daily, 10 a.m. to 4 p.m., Saturday, November 4 through Sunday, December 31.

Native Plant School

Nov. 9: Native Home Gardening: Small Flowering Trees; Nov. 13: Green Development Case Studies in the Midwest. Reservations required; please call (636) 451-3512.

photo by Jean Ponzi

Novel gift idea: home energy efficiency helpers, including programmable thermostat, weatherization products, compact fluorescent light bulbs, and a tip booklet.

EarthWays Center

Green Tips for the Holidays

by Jean Ponzi, Program Manager

What's your idea of the perfect gift this holiday season? In a recent poll conducted by the non-profit Center for a New American Dream, 83 percent of those surveyed said their dream gift would be more time with friends and family. Toward this end, the Garden's EarthWays Center offers some suggestions:

- Wrap togetherness, beauty, and fun into one package with a membership to Missouri Botanical Garden. Include an MBG calendar marked with dates to enjoy Garden strolls together with your relative or friend in every season.
- Purchase gift certificates for classes for adults in subjects like gardening, cooking, crafts and more. Better yet, take a class together with a loved one.
- Support the recycling process with your purchases. Try a treasure hunt among the gently used items at the Little Shop Around the Corner. Shop the beautiful recycled-content items at the Garden Gate Shop, such as whimsical garden critters crafted from metal tools, recycled-content stationery, and plants to bring the natural world indoors.

Visit the EarthWays Center's new Holiday Greening webpage, where you'll find links to Fair Trade, simplicity, and charitable organizations, along with many ways to reduce-reuse-recycle and save energy while enjoying holiday festivities. Here's to a resourceful season!

EARTH WAYS CENTER

3617 Grandel Square
St. Louis, MO 63108
phone (314) 577-0220
fax (314) 577-0298
www.earthwayscenter.org

From the Field

In the Andes of Ecuador: the *Páramo*

*The páramo in the Ecuadorean Andes features diverse and unusual plant forms for study by Garden researcher Carmen Ulloa Ulloa (lower photo). Above, a girl sells Andean root tubers, including potatoes (*Solanum tuberosum*), a native crop.*

Today in every country on Earth, species are becoming extinct at an unprecedented rate. Organisms are being lost forever before we can determine their uses or role in the balance of nature. Driven by this urgent imperative, Missouri Botanical Garden scientists conduct the most active botanical research program in the world, with operations in 35 countries on every continent but Antarctica.

Between Colombia and Peru lies a South American country roughly the size of Colorado. Once the north end of the Inca Empire, Ecuador was colonized by Spain before becoming an independent republic in 1830. Today, the nation, which includes the Galápagos Islands, is known to Americans primarily for eco-tourism. It is a place where visitors may see on one trip the majesty of the Andes, dense rainforests of the Amazonian east, and Pacific lowlands on the shore. Ecuador is a hotspot of biodiversity—botanists there discover a new species practically every two days—however, conservation actions have been hindered by political conflicts and insufficient resources.

In July, Garden Curator Dr. Carmen Ulloa Ulloa led a botanical expedition to the Andes of Ecuador. Ulloa, who has studied Andean flora for 20 years, went to explore the *páramo*, a region above the mountain forest and below the permanent snowline, circa 10,000 to 15,000 feet.

Plants adapted to this region feature unusual forms, such as giant rosettes, cushions, tussocks (grasses), and dwarf shrubs, many covered with a dense layer of white or silvery hairs. Small patches of forest seem like something out of a fairy tale. "Tree-daisies" (woody relatives of the common chrysanthemums) and "paper trees" (members of the rose family with paper-like bark) abound with twisted trunks covered with epiphytic orchids and bromeliads. The ground is carpeted with a deep layer of mosses.

"Although the *páramo* only occupies a small area on top of the mountains, it hosts the richest high-mountain flora in the world with high biological diversity and endemism," says Ulloa, "and it fulfills a vital function."

The *páramo*, along with the Andean cloud forests, buffer the hydrological cycle, slowly releasing fallen rain water to rivers and lakes where it is used for consumption, irrigation, and hydropower generation. *Páramos* are also an important ecosystem for Andean crops that have been cultivated for millennia, including the potato (*Solanum tuberosum*), among other edible crops.

Despite its breathtaking natural beauty, this fragile ecosystem is threatened by agriculture, burning, grazing, firewood collection, and exotic new species. The work of Missouri Botanical Garden researchers has helped guide recent decisions by the Ecuadorean government to include *páramos* as part of their national conservation programs.

photo by Ryan Rumberger

Tributes

July–August 2006

A tribute gift to the Garden is a wonderful way to honor family and friends. If you have questions regarding giving opportunities at the Garden, please call (314) 577-0805. You can also make a tribute gift online at our website, www.mobot.org.

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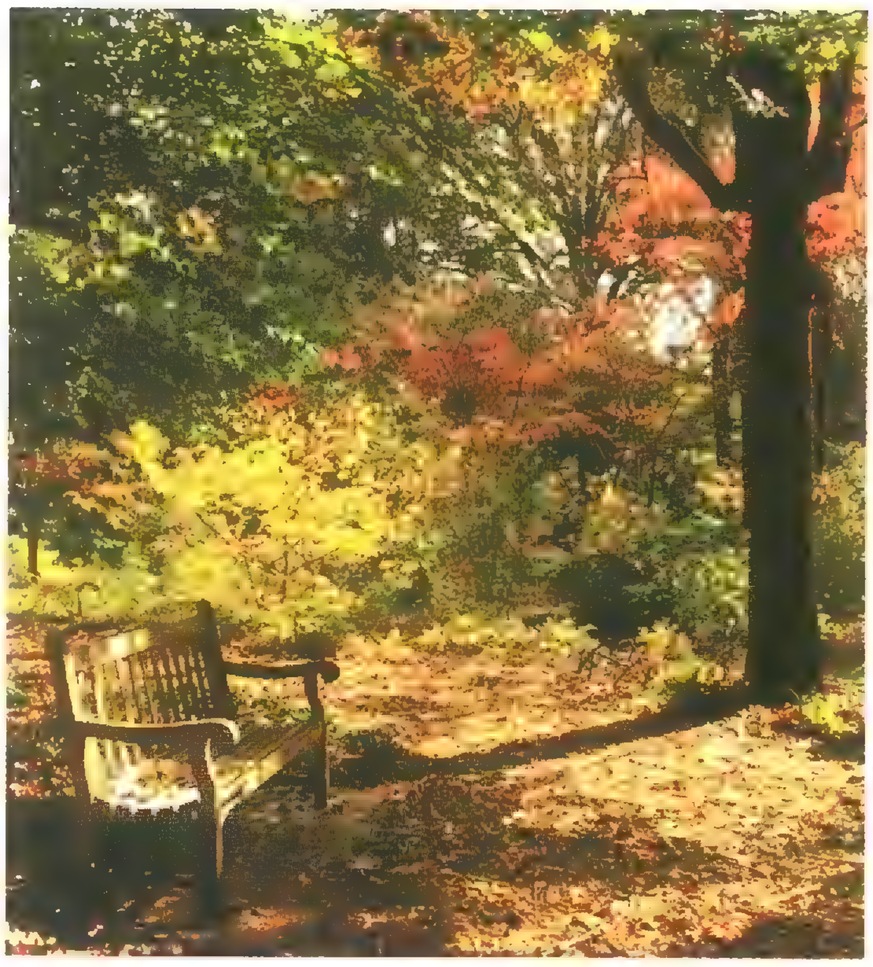

Create a legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call Planned Giving Director Rachel Hartmann at (314) 577-9455 for further information. Or visit our website at www.mobot.org. Click on Membership, then Planned Giving Guide.

LITTLE SHOP AROUND THE CORNER

ANTIQUES • HOME & GARDEN FURNISHINGS

It's holiday season at the Little Shop Around the Corner, where a festive atmosphere awaits shoppers. Early birds are sure to find the best treasures, so be sure to stop by our little corner soon, where all purchases benefit the Missouri Botanical Garden. Members' sale days: November 1–5, and 9. *Holiday extravaganza:* 20 percent off from November 24 to December 24.

4474 Castleman, St. Louis, MO 63110 • (corner of Shaw and Vandeventer)
(314) 577-0891 • Hours: Tues. through Sat., 10 a.m. to 4 p.m.

photo courtesy Mary Smith

This stunning glass necklace by St. Charles artist Mary Smith won a prestigious Saul Bell Jewelry Design Award for 2006. The Garden Gate Shop is pleased to offer the work of Mary Smith as well as that of many other local and nationally known glass artists.

Garden Gate Shop

4344 Shaw Boulevard • (314) 577-5137
Hours: 9 a.m. to 6 p.m. daily.
All proceeds benefit the Garden.

Visit the Garden Gate Shop and the temporary *Glass in the Garden* Shop at the Climatron for spectacular glass gifts and decor.

Members receive 20% off (excluding Chihuly prints and glass) on sale dates: November 1–5, 9 and December 6–10.

photo by Ryan Rumberger

Members' Entry Court

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0874 or visit www.mobot.org.

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening from July through August.

Bronze signature bricks

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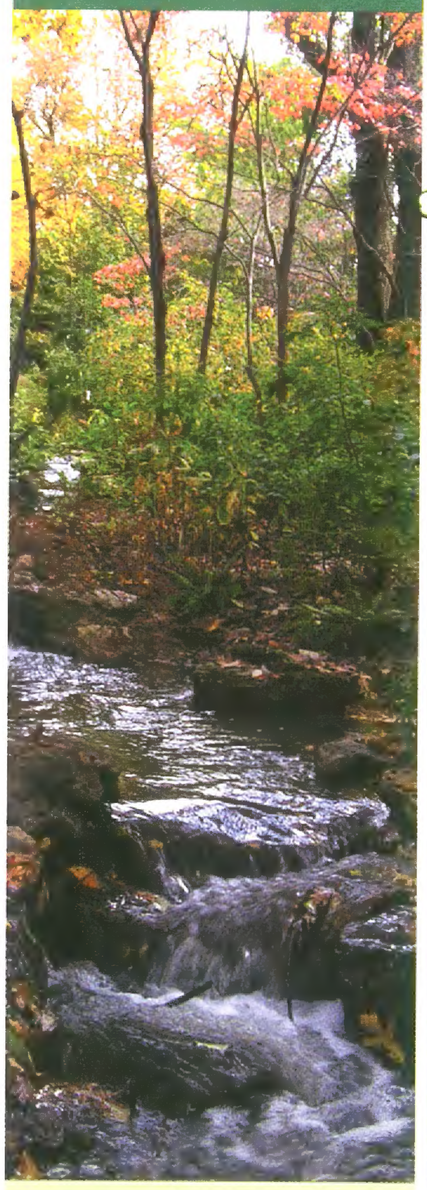
Calendar of events...

our family { BUTTERFLY HOUSE · EARTHWAYS CENTER · SHAW NATURE RESERVE

November



Blooming now...
Colorful Japanese maples and golden gingko, chrysanthemum and pansies, early camellias, eastern witchhazel

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01	02	03	04
				■ GGS and LS sale Chihuly Nights 5:30 to 10 p.m. $		
05 ■ Putting the Children's Garden to Bed, 10 a.m. to 2 p.m. See p. 12. ■ From the Garden, Live: Dello Thedford's Gospel Symphonic Choir. Noon. ☎ ■ GGS and LS sale	06 Chihuly Nights 5:30 to 10 p.m. $	07 *Election Day* ** Members' Day Members receive free admission to Chihuly. 9 to 11:30 a.m.	08 ■ GGS and LS sale	09 **Members' Day Holiday Decorating. 11 a.m. See p. 8. ■ GGS and LS sale ■ Native Plant School. SNR. $☎ Chihuly Nights 5:30 to 10 p.m. $	10 ■ GGS and LS sale	11 *Veterans' Day* ■ BUZZ: Insect Folklore. BH $☎
12 ■ From the Garden, Live: American Kantorei. Noon. ☎ ■ EarthWays Tours 11 a.m., noon, 1, and 2 p.m. EC. ■ From the Garden, Live: Young Artist Competition. Noon. ☎	13 Chihuly Nights 5:30 to 10 p.m. $	14 ** Members' Appreciation Day See p. 6 ■ Victorian Christmas at Tower Grove House through Jan. 1. See p. 10.	15	16 ■ Green Building Series. SNR. $☎ Chihuly Nights 5:30 to 10 p.m. $	17 	18 ■ Holiday wreath exhibition through Jan. 1 ■ EarthWays Tours 11 a.m., noon, 1, and 2 p.m. EC.
19	20 Chihuly Nights 5:30 to 10 p.m. $	21	22 ■ through Jan. 1 Gardenland Express: Gateway to the West. See p. 9.	23 *Thanksgiving Day*	24 ■ LS sale. Nov. 24 - Dec. 24	25
26 Chihuly Nights 5:30 to 10 p.m. $	27	28 ■ Home School Academy. BH $☎	29 ** Members' Holiday Show Preview. See p. 9. ■ Home School Academy. BH $☎	30 ■ Home School Academy. BH $☎ ■ A Prickly Affair. 6 to 8 p.m. See p. 5. Chihuly Nights 5:30 to 10 p.m. $		

Register now for wreath making, cookie baking, or other classes. Call (314) 577-9441.

December

Blooming now...
Poinsettias of many varieties fill the holiday flower show… snows covers the serene Japanese Garden… it's always 85 degrees warm in the Climatron tropical rain forest conservatory!

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01	02
					■ Home School Academy. BH. $☎ ■ Camp BUGaloo. BH. $☎	** Members' Event Breakfast with Santa. See p. 8. ■ (SNR closed)
03	04	05	06	07	08	09
■ From the Garden, Live: Bach Society. Noon. ☎ ■ (SNR closed)	Chihuly Nights 5:30 to 10 p.m. $	** Members' Day Members receive free admission to Chihuly. 9 to 11:30 a.m.	■ GGS and LS sale	■ GGS and LS sale Chihuly Nights 5:30 to 10 p.m. $	■ TGA Holiday Luncheons. $☎ See p. 8. ■ GGS and LS sale	** Members' Event Holiday Concert. See p. 8. ■ BUZZ: Food for Thought. $☎ ■ GGS and LS sale
10	11	12	13	14	15	16
■ Chanukah. See p. 10. ■ GGS and LS sale	Chihuly Nights 5:30 to 10 p.m. $	** Members' Day Members receive free admission to Chihuly. 9 to 11:30 a.m.		■ TGA Holiday Luncheons. $☎ See p. 8. Chihuly Nights 5:30 to 10 p.m. $		■ Christmas Carols. See p. 10. ■ EarthWays Tours 11 a.m., noon, 1, and 2 p.m. EC.
17	18	19	20	21	22	23
■ Christmas Carols. See p. 10. ■ EarthWays Tours 11 a.m., noon, 1, and 2 p.m. EC.	Chihuly Nights 5:30 to 10 p.m. $	** Members' Day Members receive free admission to Chihuly. 9 to 11:30 a.m.		Chihuly Nights 5:30 to 10 p.m. $		
24	25	26	27	28	29	30
	Christmas Day (Garden closed)	** Members' Day Members receive free admission to Chihuly. 9 to 11:30 a.m.	■ Kwanzaa. See p. 10.			
31						
New Year's Eve						

Chihuly Nights 5:30 to 10 p.m. $ — Monday, Tuesday, Wednesday, Thursday, Friday, Saturday

Missouri Botanical Garden Library
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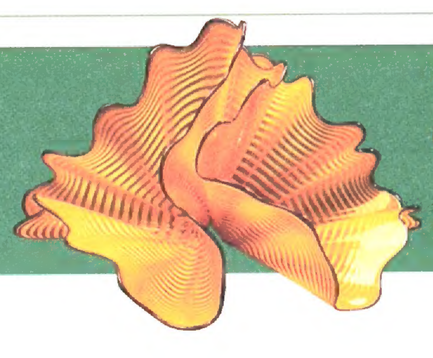

BH = Butterfly House
CA = Cohen Amphitheater
CL = Climatron
EC = EarthWays Center
GGS = Garden Gate Shop
JG = Japanese Garden
KC = Kemper Center
LS = Little Shop Around the Corner
MC = Monsanto Center
RC = Ridgway Center
SNR = Shaw Nature Reserve
SP = Spink Pavilion
** denotes a members-only event
$ denotes an additional fee
☎ denotes reservations required
Walking tours 1 p.m. daily
Early morning walking, every Wed. and Sat. from 7 a.m.

photos by Jack Jennings, JJ Lane, Terry Rishel, Ryan Rumberger, and Charles Schmidt.

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General information

Hours

The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Parking is free.

General admission*

Adults age 13–64 ..... $8
Members and children 12 and under .... free

St. Louis City and County visitors, with proof of residency, receive a discount on admission and free admittance on Wednesday and Saturday mornings from 8:30 a.m. to noon (unless special event pricing applies).

**Special events require an additional fee.*

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Editor: Elizabeth McNulty
Designer: Ellen Flesch
Cover photo: *Neon Tumbleweeds, 2006* by Dale Chihuly. Photo by Terry Rishel.
Back cover photo: Gardenland Express Holiday Flower and Train Show. Photo by Ryan Rumberger.

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The BULLETIN (ISSN 0026-6507) is published bi-monthly by the Missouri Botanical Garden, 4344 Shaw Blvd, St. Louis, MO 63110. Periodicals postage paid at St. Louis, MO.

Postmaster: Please send address changes to: *Bulletin*, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166-0299.

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***Gardenland Express:* Gateway to the West**
Holiday Flower and Train Show

November 22 through January 1, 2006

All aboard! Don't miss all the cool stops across America on your journey. See page 9.

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